Lecture note on

Entrepreneurship management and Smart Technology

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1. Entrepreneurship (Joseph Alois Schumpeter in known as father of intrepreneurship)

Concept Meaning of Entrepreneurship

Enthepreneurship is the ability to develop, Organise f run a business enterprise, along with any ob lite uncertainties in Order to make a probit. The most important example of entrepreneurship in the starting of new businesses.

- Land
- a. Lakour
- 3. Natural Resources
- 4. Capital (Money) sine sine best one

- Maximum probit-
- Risk taking
- Orlobal Marketing

Types of Entrepreneurship: It is iclassified into Following types ; war and ...

- is Small business Entrepreneurship
- (ii), large Company Entrepreneurship
- (3) Small business Entrepreneurship Those business rare hair dresser, grocery storce, Carpenter, plumber, Electrician etc.
- There people view their lausiness and him family innerinbers on local employees. For them the probit able to feed to their Family and not taking over ra industry.

(ii) large Company Entrepreneurship - These Companies have more like cycle

- Most ob these companies grow of Sustain by othering new and innovative products.

- Their only moto and goal is to make more probet and change in technology, customer satisfaction and new competition.

Characteristics of Entrepreneurship of The Sun 1999 3711

1. Abolity to take Ring > Starting any new venture involves la Considérable amount of failure view. Therebone, an entrepreneur needs to be Courageous & able to evaluate and take tieks, which is an essential part of being an entrepreneur.

2. Innovation >

It ishould be highly innovative to generates new ideas, Start a company of earn probits out of it - change can be the haunching of new product that s.e; new the market on a Process that does the same thing but in a more elblicant of economical way.

3. Uscionary and Leadership quality >

No be successful, the entrepreneur should have a Clear voson of his new venture. However, to two the idea into reality, at lot ob resources & employees are required. Hence, leadership quality is permanent because leader impart and quide their employees towards the right path of success.

4. Open-minded ->

In a leusiness, levery Circumstances can bee an Opperturity & used for the benefit of a Company. For example, paylin viceognosed the greavity of demoneytisation of acknowledged the need fore online transactions would be more, so it wishesed the Soluction of expanded massively diving this itime.

5. flexible -

An entrepreneur should be flexible of open to change according to the Saturation. To be on the top, a business person Should be equipped to embrace change in a product & service, tis large Comprone Contragransworthis -> as and when needed.

6. Know your product > A Company owner is hould know the broodered obterings of also be award of the latest triend in the market. It is essential to know it the available product of service meets the demands of the Culvert market on whether

it is tême to tweak it a lottle. Being able to be accountable of then abter as needed in avoital part of entrepreneurship.

7. Creation of Employment ->

Entrepreneurship generates employment which provides at entry level job required for any experience and training for unskilled workers.

8. Impact on Society and Community Development ->

A Society becomes greater of the employment gets
larged get back on diversitived which deals tolout Changes in the
Society of promoter necessofoes like higher expenditure on education
better Sanitation pure a highly level of home ownership, therefore
entrepreneurship essent the organisation towards more stable and
high quality of Community like.

9. Increase standard of living ->

Entrepreneurship helps to improve the islandards of living reasons of a person by increasing the income, the islandard of living means because in the iconsumption of various good & iservices by a howehold for a particular person.

10. Supports Research and Development >
New procedure & Services need to be researched and.
New procedure & Services need to be researched and.
Seebone launching in the market theretone as entrepreneur also dispenses
finance & research & development with universities. This Bromote
research & development in the economy.

Entrepreneur is the one who understands and operates a new enterprise & assumes for the inherent

with the founder non police of warren

ra business enterprise in an entrepreneur.

(iv) The entrepreneur is a Co-ordinator as he co-ordinate au the 3 elements is sproduction is; Land, Lakour, Capital.

(*) A ferson who innovates something new is an entrepreneur.

(vi) An entrepreneur, who leads rend enterpresse towards sits vosson to leadership and motivation.

(Vii) He becau risk of the farm for the Lake of making ut visionable.

Entrepreneurship

(i) Entrepreneurship is the fractice of Starting of Organisation, in particularly new Joursinesses generally with vierponce to identify opportunity.

cis, Entrepreneurship vanges in scale of months of projects to major undertakings, Creating many Job Opportunities.

entrepreneur Starts of rooperates each business enterprise.

in It is the Co-ordination.

maintained by as entrepreneur.

new on the process of innovation is called as entrepreneurship.

(vi) It is the way in which as entrepreneur locals each man former motivates then for achievement of the facin's goal.

(vii) The vist bearing practice is done by the of entrepreneur we called as entrepreneurship.

Roles of Entrepreneur

- 1. Economic Change
- 2. Social change
- 3. Technical charge

Characteristics of Entrepreneur 1. Facilitating character ->
An entrepreneur must build a team & keeps themselves Spenden Entrangent motivated. 2. Selt Contidence -> Entrepreneur must have believe in themselves of the abolity to achieve their goal. 3. Work with a vision of Musion -> He must be committed to the project with re time horizon. 4. High degree of Endurance Success of entrepreneur demands the ability to work long 5. Trouble ishooting Nature -> Harverdhwal Entrapreneur An intrepreneur must have intense desire to complete task forc it solve a problem. 6. Initiative of Enterprising Gersonality -> An entrepreneur must have initiative accepting personal responsibilities and making good use of viesources. 7. Goal Settors -> He must be able to yet Challenging and realistic goals. 8. Calculated Risk taking ability -> An entrepreneue is must be a moderate visk taken rend should learn from failure. iii) Methatel talingranus (1) Types of Entrepreneur: Smitating Entrepreneur Fabian Entrepreneur 3. Drone Entrepreneur (Traditional approach) with who were Smitating Entrepreneur There are often disappear length viebbered to as "Copy cate", they copy existing educcessful elystem of verplicate ut un a manner who have out the debiciencies of the original model are address of all its efficiencies rare retained. 2. Fabian Entrepreneur These are very carebul in their rapproaches. They are not to sudden decisions and try to shy away. 3. Drone Entrepreneur

They do not like change of want to do the business in the traditional on Onthodox member that's why basically they are outdated.

(2) Types of Entrepreneurs (on the basis of business) (i) Business Entrepronour They starts business units abter developing ideas for new products Jublic Services. " Soil Controverse -> (ii) Treading Entrepreneur They undertake buying and iselling of goods but they do not Engage in manubacturing. (iii) Corporate entrepreneur They establish rand manage Comportate from an Organisation. which has esparate legal existence. (ii) Agricultural Entrepreneur They undertake activities like raising & marketing of crops, Tertilizers and other allied activities. (3) On the basis of Notication Invited animaring miles (i) Hure Entrepreneus They are basically motivated to become entrepreneur for their personal satisfaction. (ii) Induced Entrepreneur They induced to take of entrepreneurial role by the reusistance govt. policies like incentives f subsidies. Motivated Entrepreneur They are motivated by the desire to make a use of technical of personal expertise of iskull. (iv) Spontaneous Entrepreneus They motivated by their desire to make uses of their well employment and to prove their excellence on job perbormance (4) On the basis of Stages of development (i) 1st Greneration Entrepreneurs They do not posses very entrepreneurial background. They Start industries by their own innovative skills was good is and Generation Entrepreneur They inherit their family business sand boussed to the

in, classical Entrepreneur (they aim to maximixe their economic victures with core without an element of growth. (5) On the basis of use of technology (i) technical they are task concented & they focus mainly on production rather than marketing. They focus mainly on marketing reather than production. (iii) professional They starts re business unit, operates, they sell the sunning business & start ramen business later and start of (6) On the basis of Arca They belong to wrom areas and established their business in the same location to avail the local advantages. Rural entrepreneur seize involved in treading on agricultural cactivities, they belong to rural areas.

7) On the basis of gooder (ii) Kural (7) On the base of gender They are debined as woman on group of women who initiale, (3) Female Entrepreneur Organise & sun a business enterprise. cii, Male Entrepreneur They are detined as man on group of men. A person who establishes as enterpriese with the aim * Social Entrepreneurs: Of solving social problems on restecting social change.

* Importance of Entrepreneurship m Course countries (1) Promotes Capital forumation: They promote capital formation by mobilizing the idle Savings of public they employ their own as well as borrowed resources for their iselfing up their business such types of activoties leads to Creation wealth which each very essential for the industrial rend economical of the Courtry. (2) Creates large scale employment opportunities: - la molorine Entreprieneur provides immediate large scale employment to the unemployed which is a major problem in under developed of developing nation. (3) Promotes Balanced regional development: They help to remove regional disperities through isetting up industries in less develop and leackward areas by improving the transport, health, education, entertainment. (4) Reduces Concentration of economic power: Economic power is the natural outcome of industrial and bushes activities which lead to the Concentration of economic power in the hand of few individual, which results in growth of monopoly. (5) Increase per Capita income:-Sontrepreneur explore & exploit opportunitées encourage Obfective resource mobalisation thus increasing the per Gapita income of people in a country. (6) Improvement in the standard of living: A good entrepreneur enables people to avail better quality goods at lower prices which results in improvement of their standard at living. (7) Bromotes Country's export trade:-They produce goods and services in large scale for the furpose of earning huge remount of foreign exchange from export. (8) Meeting local demands :-They focus their attention to manubacture / services to indegenous technology, local skill, local occasionices and local experiences.

Entrepreneural Motivation It is the process of transforming of ordinary individual into a powerful business man who can create oppertunity of helps un economic development. (4) Internal factory: - (Under control of Selb) (i) Needs for Selb realisation (ii, Optimism ais possive attitude (ii) Sell- motivation (v) Enthusiasm (vi) Committment (VEE) Education (vil) Background (ex) Financial Background (2) Enternal factores: - (Not under control of Selb) (i) Influence (ii) Availability of resources (iii) Broducts demand (in) Grove policies (v) Interemation ravailability (vi) Technology (vie) Changing tastes (3) Entrepreneural personality: (i) Bold (ii) Rational and practices (ili) Original (iv) perceptive (Sensitiveness) (v) Direct (vi, Sociable.

Micro

(i) Consumere

(i) Demographic

(ii) Market

(iii) Supplier

(iii) Organisation

(iv) poletocal

(v) Intermediatory

(vi) Competitores

Darcier in entrepreneurate Several obstacles restrict the entrepresental growth in a Society. These factors may be divided into two groups, ci, economic obstacles and non-economic obstacles. The obstacles affect entrepreneurial development in the less developed Courtues. Obstacles in Entrepreneural growth; A) Economic Factore: Shortage of Capital, lack of infrastructural meilities, non-availability of raw materials, labour stortage, detective tax staucture, lack of technology, indifferent attitude of bankers, retard entrepreneurship. B) Non-economic factors:
Following non-economic factors obstruct the growth of entrepreneurship. 3) Social factore - Customs, treaditions, lack of social mobility, Rationality of Society, Social System etc. ii) personal factors -> Lack of Creativity, low achievement metives indifferent attitude, lack of entrepreneural qualifier, suspection is personality etc. iii) Other factors -> Increasing competition, ineltective administration, lack of political will, complex laws, inadequale facilities of higher education, radiverse attitude of the government etc. A) Economic factory inhibiting entrepreneural growth; The economic obstacles in the way of entreprenewial growth include ishortage of capital, lack of intrastructural facilities, nonavailability of raw materials, shoretage of skilled Labour, lack of technology, indofferent attitude of banks, heavy taxation and the lives. The adverse economic Conditions, suspince scarcity and lack of technology restorct the entrepreneural growth. We witnessed such situation before 1990 in India. As a result of this, entrepreneurship and not spread widely. B) Non-economic factors inhibiting entrepreneurial growth: Basides economic obstacles, there are a number of non-economic Obefacles afterling the enterpreneurial growth. They may be ulub divided as follows;

1) personal factors -> These factors viewolve revolve revolve the person in person having no adventurous spirit, lack of interest, lack of ambition Cannol become entrepreneur. The attoride bend value system of a person Create Obstacles in turning to entrepreneurship. ii) Social factors - The Customs, treaclitions, values and attitude of Society also create hindrances for entrepreneurship development. A dociety giving no recognition to wealth accumulation, business activities and materialism cannot stimulate intrepreneurship remong its member . It the entrepreneurs are not viespected in the society and raccorded in higher status bearle never think of becoming entrepreneur. higher status, people never think of becoming entrepreneur. in political factory - Inetficient, Consupt administration, the adverse attifude of government towards entrupreneurship and the lack of political Will, act as obstacles to the entrepreneural growth. The strangent laws, heavy taxation, and her scope to prevate sector stand in the way of entrepreneurship development and the Country remains backward Competition, inadequate higher education facilities, poor intrastructure These factores have negatives impact on entrepreneurship developments.

Entrepreneur Va. Manager Any enterprise needs entrepreneurs to start the enterprise and run it. It also meeds manageris for the managerial role required for running day to day operations of the criterprise An Entrepresneur appoints a manager for Cavying out Some of his functions, An entrepreneur may also pertour duties of a manager in getting done his creative activities and Satisbying need of achievement An entrepreneur taxes a venture for his personal Satisfaction, whereas ra protessional manager has functions like setting targets, following reules, procedures, attainment of Set targets. Any faiture of san enterprise may be ra huge loss in the cover of an entrepreneur. A probessional manager takes care of the general functions of sunning an organisation such as strategic planning, operation planning, Organising the resources, islabbeng. He contributes on day to day operations in achieving the quality of goods produced, makes ebtacent use of the resources and enhancement of the Standards.

A manager is appointed by the Organisation and baild as per the employment contract. An entrepreneur is not a faild manager. He is great motivation to start his new business and also manage it successfully. He is the investor and takes asks in the enterpress. He is an innovator and a manager and works for his Satistaction and he is happy to get possible viesults.

| Manageru Vs Entrepreeneurs | | |
|---|---|---|
| Basi | | Entrepreneur |
| Running of Business | He runs an abready existing business. | He vets up a new business enterprise. |
| Type of Skalls | He possesses that managerial skills and business know how to operate a business enterprise. | He possesses the managerial, Creative and chrovatore skalls to Launch a business venture. |
| uloneking pattern | by the entrepreneur. He performs day to day functions of the business. | He acts as an innovator and Creates a set up for managers to work in. |
| Basi Manager Entrepreneur Vission | 2112-2-211 | He launches a new business and works for its growth and success. |
| Banc | Componente reverde. | mitwated. |
| Focus | Preimarily on events inside Comporation. | promovely on technology and market place. |
| Background | Family members worked for large Organisations. | Entrepreneuvial small business, professional on agricultural background. |
| Degree of Risk | Carebul | like moderate risk, invest, heavily but expects to succeed. |
| Decision Making | Agrees with those in power. Delays decision until he gets a feel of what bosses want. | Follows provate voscon. Decisive and action oriente |
| Problem solving Methodology | Works but problems within the Usystem. | pushing up and dawn problems get deluted on loosed around. |

Business is a system created to Salisby the need of the people Business Of the Society. Det: The organized ebborts of Certain person (i.e., Entrepreneur, Firm, producer on distributor) to earn problet with the trulbilling needs of the people. - It Creates employment.

- It Contribute to the economic growth of the country - It improved the standard of leving "beusiness in a Commercial activities done by Certain person to lain profit. Objectives, The probet maximixation is the prime objective, Iswell as Sales revenue maximixation and growth reate increase. U LAUKA D - For the maximixation of managerical utility function (WHU) -> lentry frevention and risk avoidance. -> Social benefits (awareness, instructions, and Consequences) A business Organisation usually takes the following forms in India (1) Sole propreietorship (2) partnership (3) Joint Hindu Family (4) Cooperative Society (5) Joint Stock Company It his the Simplest and most easily formed business organization Sole Proproietorship The Sole propretership in a form of business that in owned, managed and Controlled by an individual. He has to arrange Capital for the business and he alone in responsible for uts management. He is therebone, entitled to the probits and has to bear the loss of business, however, he can take the help of his family members and also make use of the iservices of 10thers Such as a manager and other employees. Malacatta

This type of business Organisation is also called slingle Ownership. On Single propraietorship (e.g. business primarily Consists of trade, Small factories and shops). Features of Sole Proprietorship: The important features of & Sole-propre tary organization include the following; cis Individual Initiative - One person is the owner in a Soleproprietary foreign of Organisation. (ii) Rask Bearing - The proprietor is the sole beneticiary of probits in this form Organisation. It there is a loss he alone has to bear it. Thus the rusks of business are borne by the proprietor homself herselt. (iii) Management and Control -> Management and Control of this type of Organisation us the viesponsability of the sole proprietor. He may, however, employ a manager or other people for the burpose. civ) Minimum government regulations - The government does not entertere with the working of the sole proprietorship Organisation. However, they have to comply with the general laws and rules laid down by government. (v) Unlimited liability -> The Sole proprietor has to bear the losses and is desponsible for the leabilities of the business. It the business assets are not isubficient to meet the liabilities, he may also have to sell his personal property for that burpose.

(Vi) Secrecy - All important decision taken by the owner himself. He keeps all the business secrets only to himself.

Mercits of Sole proprocedonship: A sole proprietary organisation has the following advantages; (i) Easy formation -> A Sole proprietoriship business in easy to form where no legal foremality involved in setting up this type of Organization. It is not governed by any specific law. It is simply required that the business activity ishould be lawful and ishould comply with the rules and regulations laid down by local authorities. (ii) Better Control -> In Sole propredetary Organisation, all the decisions relating to business operations are taken by one person, which makes functioning of business isimple, Easy and better control.

person to whom the probits belong. The sole propretetor ele the only between eleborat and reward. This notivates him to work hard and lear the ricks of business.

(iv) Inexpensive Management -> Mhe isole propretetor and supervises appoint any specialists for various functions. He personally supervises various activities and can avoid wastage in the business.

I initations of Sole proprietorship: -

A sole proprietor generally esubbers from the following limitations, (i) Limitation of management skills -> A sole proprietor may not be able to manage the business efficiency as he we not likely to have necessary eskills regarding an aspects of the beariness. Whis poses difficulties in the growth of business also.

(ii) Limitation of Resources - The sole proprietor of a business is generally as at a disadvantage is raising sufficient capital. His own capital may be limited and his personal assets may also be insufficient for raising loans against their security. This reduces the

Scope of bushess growth.

for all business Obligations. For payment of business debts, his personal property can also be used it the business assets are insubticient.

civ) Lack of Continuity -> A Sole propreheavy Organisation Subfers from lack of Continuity. It the propreheave is in this may cause temporary closure of business. And if he dies the business may be permanently closed.

Partnership

Partnership is an association of persons who agree to Combine their fenancial resources and managerical abilities to reun a business and whare problet in an agreed reatio.

The Indian partnership Act 1932 debines partnership as "partnership" if the relation between persons who have agreed to whare the problets of a business carried on by all or any one of them

A partnership firm can be formed with a minimum of two partners and it can have a maximum of twenty partners.

Iteatures of partnership: -

The features of partnership are as follows,

(c) Existence of an agreement -> partnership ils formed on the basis of an eigneement between two on more persons to cavey on business. The terms of Conditions of partnership are laid down to a document

known as partnership Deed.

(ii) Engagement in business -> A partnership can be formed only on the basis of a business activity. Its business may include any trade, industry or profession. Thus, a partnership can engage in any Occupation - production or distribution of goods and services with a view to earning probits.

(iii) Shaving of profits and losses - In a partnership form, -partners are entitled to ishare in the profits and are also to bear

the losses, if any

civo Agency relationship -> The fartnership business may be cavaired on by all on any of the partners acting for all. Thus, each partner is a principal and so can rect in his own right. At the isame time he Can act on behalf of other partners as their agent. Thus, every partner can bind the form by his acts.

(v) Unlimited Liability -> The liability of fartners is unlimited. In case some obligation wises then not only the partnership assets but also the private property of the factness can be taken for

the payment of liabilities of the form.

(vi) Common Management -> Every fartner has a right to take part in the running of the business. It is not necessary for all partners to participate in the day-to-day activities of the business but they are untitled to participate. Even of partnership leusinose is run by Some fartners, the Consent of an other partners is necessary for taking important decisions.

(vi) Restruction on transferability of share -> No farther was transfer his ishare in partnership to any other person. He may, however,

do so with the consent of an other partners.

(vii) Registration > To form a fourthership firm, it is not compulsory to register it. However, it the pointners so decide, it may be registered with the registrar of firms. There are advantages of registration.

With the registrar of firms. There are advantages of registration.

With the registrar of firms. There are advantages of registration.

With the registrar of firms. There are advantages of registration.

With the registrar of firms. Combinues at the pleasure of the city. Director.

The partnership firms to an end if any partner dies, retires on becomes insolvent tunable to pay what you owe.

However, it the remaining fartners agree to work together under the However, of the remaining fartners agree to work together under the Original firms mane, the firm will not be dissolved and will continue original firms mane, the firm will not be dissolved and will continue its business after setting the relain of the outgoing farither.

Itorimation and Registrication:

Partnership Deed

Since partnership rests on an agreement among persons, retered formation does not involve any special legal problems. Generally, the infartnership agreement in reduced to writing and a partnership seed is prepared. Partnership Deed Lays down the terms and conditions of partnership and the rights, duties and obligations of partners. The following points ever generally covered in the Deed;

Types of partnership on the basis nature of agreement

According to the nature of agreement among partners, there can be three types of partnership as follows;

partnership at will > Such a partnership exists in the will of the partners. That is, if can be brought to an end whenever any partner gives notice of his intention to do so.

ii) particular partnership -> A particular partnership is formed fore undertaking a particular venture. It comes to an end automatically with completion of the venture.

ii) partnership for a fixed duration -> Such partnership is for a fixed ported of time say 2 years, 5 years on any other duration.

יה וביחסד חים נו וונא ג'פייסוני אין כיל בומצב - >

Classification partnership on the basis of liabolity (i) General partnership: In general partnership, the liability of partners is unlimited and joint. The partners enjoy the sight to farticipate in the management of the form and their acts are bending on each other as well as on the form. Registration of the firm is optional. The existence of the form is abbeited by the death, lunary, insolvency or retirement of the partners. (ii) Limited partnership: In limited partnership, the leaderly of afleast One partner is unlamited whereas the rest may have lamited liability. Such a partnership does not get termitated with the death, lunary on insolvency of the limited fauthers. The limited partners do not enjoy the right of management and their acts do not bend the form on the other partners. Registration of such partnership is compulsory. This form of partnership was not permitted in India earlier. The permission to form partnership forms with limited liability has been granted ablee introduction of New Small Enterprise policy in 1991. The videa behind such a move has been to enable the fauthership Firms to affract equity capital from freezends and relatives of Small Scale entreprieneurs who were earlier reductant to help, due to the existence of unlimited liabolity clause in the partnership

Types of partners

The various types of partner found in partnership forms are as follow;

The various types of partners found in partnership forms are a follow;

The various types of partners found in partnership forms are a follow;

There are those vary on business on behalf of the other fautners.

Partners Carry on business on behalf of the other fautners.

These of day to day business on behalf of the other fautners.

Partners Carry on business on behalf of the other fautners.

These of day to dominant partners of the are those who do not take active part in the management of the business. Such partners only Contribute Capital in the form and are bound by the activities of other partners. However, they share in the protests and losses of the business.

Types of partners in the same are as a matter of fact, the fue-fledged partners in they share in probits and losses of the business and are leable for its dues.

However, there are other types of partners ralso who may be associated with partnership directly or indirectly. They are not tun-fledged partners, which partners may include the followings (a) Nominal partners: Nominal partners are those who do not have interest in the business but lend their name to the firm. They do not make any Capital Centribution, and are not entitled to take part in management, but are liable, like other partners, to third parties. Such partners generally have a pecuniary interest (like a share in the probits) in Lending their name to a form, However in Certain cases may not have any precurrary interest in doing so. For example, a reputed industrialist may, without any probet motive lend his name to ra form roun by his family members. (6) partners by holding out: It a person by his words on Conduct holds out to another that he is a partner, he was be prevented from derying that he is not a faither. The person who thus becomes liable to third Parties to pay the debts of the soring is known as a partner by holding Out.

Menits of partnership

A partnership from of Organisation offers the bollowing advantages;

to be incurred for registration one not much.

(ii) pooling of forancial resources -> A partnership commissinds more financial resources compared to sole proprietorship. This helps in expanding business and earning more profits. As and when a firm requires more money, more partners can be admitted!

managerial skalls of all ists partners. This lead to greater abbaciency in business operations. For instance, in a big partnership firm, one Partner can handle production function, another partner can look after all marketing activity, still another can attend to legal and personal problems; and so on.

An a partnership firm, decessors are baken unanimously abter considering out the major aspects of a problem.

This ensures not only balanced business decisions list palso reproject deliberalities in the smooth implementation of those decisions.

(v) sharing of runs -> Unlike Sole proprietary Organisation, the rusk of partnership business are ushared by partners on a predetermined basis. This encourages partners to undertake rusky but probitable business activities.

Limitations of partnership

-> Uncertainty of existence (refirement, death, lunarry of any partner)

> Risks of implied authority (mislake of co partners over whom he has no contact)

-> Riks of disharmony (31 sma partners may adopt rigid attetude)

-> Difficulty in withdrawl from the forcy (the withdrawl of a partners share requires the consent of an other

-> Lack of institutional Contridence (large for ancient occupances, can not be

→ Dobticulties of expansion raised by partnership & growth of business (It is difficult for a partnership Can not be ensured).

Firm to undertake modernization of expansion of expansion of ets operations. This is because of ut inability to * raise adequate funds for the purpose.

Co-operative Organisation

Meaning:A co-operative form of business Organisation is different from Other forms of organization. It is a voluntary association of persons for mutual benefit and its arms are accomplished through sell-help and Collective elborat.

- The main principle underlying a cooperative Organization is mutual help, is; each for one and all for each. A minimum of 10 persons are veguined to form a co-operative society. To be called a co-operative society it must be vegestived with the Registrar of Co-operative Societies under the Co-operative societies hat. The Capital of a Co-operative Society is vaised from its members by way of where capital. It can also obtain additional verousces by way of loans from the State and contral Co-operative Banks. Also, registration is optional in the case of partnership but it is compulsory for a co-operative Society.

Types of co-operative Societies Co-operative Societies may be classified into different Catagonies according to the nature of activities perbonomed by them. The main types of Ro-operative Societies are; 1. Consumers Cooperative Societies 2. producers co operative Societies 3. Co-operative marketing societies ansistion of perhaustic 4. Co-operative credit societies 5. Cooperative farming societies 6. Co-operative housing docieties Characteristics of Co-operative Organization The following are the main characteristics of consperative Societies: (i) Voluntary association -> In Co-operatives, the membership is Voluntary. Anybody having a Common interest in free to join a Co-operative Society. The member can also leave the society anytime after giving proper notice. (i) Equal voting rights -> In a co-operative escripty, the principle of One-may one Vote is radopted. A member has only one vote irrespective Ob the number of shares held by him. Thus, a co-operative society is ran on democratic principles. (iii) Separate legal entity -> 4 Co-operative society is viequired to be registered under the Co-operative societies Act. Registration provides it a Separate legal entity. Its existence is quite different from its members. The death, insolvency on lunary of a member does not abbect cits existence. It can sue and be sued in its own name. It can make agreements as well as purchase and sell properly in its Own name. car) Service motive -> A Cooperative society is based on the service molive of its members. It's main objective is to provide service to the members and not to maximize profits. Earning profit is the most important objective of other forms of business Organisaction, It is not so in the case of co-operatives. (v) Destribution of Seurplus > Out of the profits of the Co-operative, members are paid dividend and bonus. The bonus is given according to the volume of business transacted by each member with the Co-operative

Society. For example, in a consumer co-operative society, bonus in paid in proportion to the purchases made by members during a year. In producers co-operative the valued goods delivered for sale from the basis of distributing bonus.

Merits of co-operative Organisations:

(i) Easy to foren (registreation is sample of can be done without much legal formatties)

(û, Open membership (open organisation to au having a Common interest).

(tii) Democratic management (All members heure equal suight of can have a voice on

(iv) Limited Leability (They don't have to bear personal liability for the debts of the

(v) Stability (fairly Stable like of Continues to exist for a long period)

(vi) Economical operations (quite economical due to elimination of middleman)

(vii) Government Support (Gove gives loans at lower rates of interest & relieb in toucking

(Viii) Other benefits (Credit Co-operatives, for instance, promote habits of thrust and producers co-operative encourage joint activity among members)

Lineators of Co-operative Organisations:

i) Limited Capital

ii) Snetticient management

my Absence of motivation

in Differences and factionalism among members

y) Rigid rules and sugulations

(4) perpetual junctions +

The Company form of Organisation is Considered to be most Suitable for Organising business activities on a large scale as it does not Sutter from the limitations of Capital and management of other forms of Organization. The Sole proprietorship, partnership and Co-operative Organization Organization. The Sole proprietorship, partnership and Co-operative Organization are not capable of undertaking large scale activity due to lack of organization adequate capital and limited managerial abilities. In a Company Organization adequate Capital and limited managerial abilities. In a Company Organization of these problems can be easily overcome. It has the advantage ob attracting huge capital from the fullic due to the limited liability of members. With adequate capital it can also employ trained and experienced managers to run the business activities libiticiently.

A Company is debined as a voluntary association of persons having Separate legal existence, perpetual succession and a common seal.

As per the debinition, there must be a group of persons who voluntarily regree to form a Company. Once formed the company becomes a separate legal entity with ra diffict name of its jown, see existences is not affected by change of members. It must have a seal to be imprinted on documents whenever required. The capital of a company consists of transferable whenever required. The capital of a company consists of transferable whenever, and members have limited liability.

Feature of a company :-

cis Regordered body -> A Company Comes into existence only abter uts viegithation. For that purpose, necessary legal formalities have to be Completed as prescribed under the Companies Act.

(ii) Distinct legal entity -> A Company is iregarded as a legal entity Separate from its members. Thus a company can carry on business

in its own name, enter into Contracts, Sue, and be sued.

(ii) Antibicial person -> A Company is the Creation of law and that a distinct entity. It is therebore, regarded as an artibicial person.

The business is view in the name of the company. But because it is an artibicial person, its functions are personned by the elected representatives of members, known as directors.

(in) perpetual succession - A Company has Northneous existence independent of city members. Death, insolvency, on Change of numbers has no effect on the lite of a Company. The Common Saying in this stepart is that members may some, numbers may go, but the company goes on forever. The lite of the Company can come to an end only through the prescribed legal procedure:

(v) Common Seal -> Since ra Company wis as artificial person, it has no physical existence. The activities of the Company are Carried through a group of natural persons elected by its members (Called directors). Every Company must therefore, have a Common real with its name engraved on it. Anyone acting on behalf of the Company must use the Common real to bend the Company.

(vi) Limited liabolohy -> The liability of the members of a company is limited. It is limited to the extent of capital agreed to be Contributed. Beyond that amount, the members cannot be personally

held liable for payment of the Company's debts.

(Vii) Transferability of shares -> The Capital of a company air divided into parts called ishares. Normally the shares of a company are freely transferable by its members. However, transferability is restricted in the case of private Company.

Merits of a company

(E) Collection of huge Linancial resources

(ii) Limited liability of members

(iii) Free transferability of ishares

(iv) Dwalitely and stability

(V) Crowth and expansion

(vi) Efficient management

(Vii) Public Contidence

(viii) Social benebits

Limitations of Company Organisation: (i) Lengthy and expensive legal procedure (regestration is a long-drawn process) is becessive government regulations (A Company is subject to government regulations at every stage of its working, penalty for noncompliance of the legal viequirements). (iii) Lack of incentive (Obbicials do not have investment in the Company and also do not bear the risks). (iv) Delay in decision-making and action (Individual managers are wable to take decisions on their own. They may have to consult other which may take a lot of time). (V) Conflict of interest (Vi) Oligarichic management (control by a Small group of persons) (Vii) Speculation (A Company organization provides Scope too speculation in Shares by the directors. Because directors have knowledge of all intermation about the functioning of company, they can use it to their personal advantage) (Viii) Growth of monopolistic tendencies (eliminate competition, control the market and Charge unreasonable prices to maximize profits).

(in) Inthuencing government decisions

Limited Liability Partnership (LLP) A legal form available world wide in now introduced in India and in governed by the Limited Liabelity partnership Act 2008, with effect LLP Combines the advantages of ease of rouning a partnership and From April 1, 2009 Superate legal entity status and limited liability aspect of a company.

Main features of a LLP > LLP is a separate legal entity Separate from its partners, can sin assets in ut name, Sue and be assed. > Unlike Comporate ishareholders, the positivers have the right to manage the business directly. - One partner is not responsible on liable for another fartner's misconduct or regligence. -> Minimum of 2 partners and no marinum should be 'for probet' business. -> perpetual succession The duties and obligations of Designated partners show be as provided in the law. -> Liability of the partners is limited to the extent of his Contribution in the LLP. No exposure of personal assets of the partner, except in cases of fraud. -> LLP ishall maintain annual accounts. However, audit of the accounts in required only of the contribution exceeds Rs. 25 lacks on annual turnover exceeds Rs. 40 laxhr. Mercits - Lower Cost of formation -> Lesser Compliance requirements - Easy to manage and run -> Easy to wind-up and dissolve - No requirement of minimum capital Contributions. -> partners are not liable for the acts of the other partners. - No minimum alternate tax (as of date).

A Fite of march Demerite

-> LLP cannot raise money from the fublic.

-> Financial Institution may not lend the large amount the LLP.

Start up Company

Startups are young companies founded to develop a unique product on Service, bring it to market and make it irresistible and

inneplaceable for Customers.

Startups are rooted in innovation, addressing the debiciencies of existing products on creating entinely new categories of goods and Services, thereby disrupting entrenched ways of thinking and doing business for entire industries. That's why many startups are known within their respective industries as disruptors.

You may be most familiar with startups in Big Tech-think tacebook, Amazon, Apple, Netbline, Google, Collectively known as FAANG Stocksbut even Companies like Wework, peloton rand Beyond Meat are Considered

Startups.

Difference between Startup and Isman busines: -

1. Innovations

One of the most important differences between startups and small business in product on Service innovation.

Small business does not make any claims as to uniqueness. & (e.g., haindnessing salon, restaurant).

Innovations are the most important things for a startup. Startups we meant to create something new and to improve what abready exists.

Small business makes progress within Limits established by a 2. Scopes businessperson oneselt. In other words, you put lonitation on the growth of the Company and focus on service of a certain circle of Customers. A start up, as a rule, deernot put any limitations on its growth and focused on winning over as much market whome as possible. you are ready to increase your influence with you become a leader in the industrier. 3. Rate of growth

Small business should grow fast but a high-presonity task its to make a probit. When a business opens benefits, its growth happens as and when necessary.

Startup Should always grow and within the ishortest possible time. Treating a reproducible business model, you ishould be able to reproduce the success of the Company worldwide.

Small business in focused on getting earnings rand at possible, a protect from the very first day. A closing gain of the company depends on a chief's appetites let alone plans for business expansion. It might take months one even years for a startup to gain first Cents. A top target in to create a product, which consumers will like and will take on a market. It this aim will be achieved, probet of the company will be millions. (e.g. present evaluation of liber Company of 50 billion solutions)

5. Finance
Small business. In order to start one's own business, as a rule, private
Savings, Investments on the part of one's family, Insends, banking Credits
and/or investor funds will do.

Starty Many projects are run by private means on with the help ob. I family members and close ones. Startup should reachout the stage of development, which is why it requires additional capital before the Company begins making profits. In this case, investors wait for an extra tenancial return, which creates additional pressure on the Company.

Small business - There are no special technologies required.

Technologies in the sphere of marketing, accountant's solutions, etc.

Startup - Technologies are obtentines the main product of startup.

But even it it is not so, startup can not help but using new technologies to achieve fast growth and scale up.

5 Small business - 32% of enterprises are ishertdown in the forst three years, which is not bad comparing to interpress.

Startup - 92% of enterpresses are ishertdown during the forst three years.

For a isman business as many workers are usually hired, as needed iso a company operate within the established limitations of growth.

Startip manager ishould develop a leader and managing qualities from the very beginning ress long on startup whould grow as fast as possible.

9. Way of lite

Sman business Compared to startups, takes less of a risk and duties. In time work and personal lite reater has to be balanced.

Startup - It there are investors funds, the Company will estart making to probet earlier. So, a balance between work and personal lite is out of

the question. Work, work and work again!

Small business - Two versions here, make it a family business on to sell it.

Startup - Usually moves forwards next stage via a large deal on Sale on 190 (Initial public observing)

It is possible for a small business to become a startup or vice versa, but everything depends on a founder's decision. Sometimes it depends but everything depends on a founder's decision. Sometimes it depends on a founder's intentions (meaning whether a Company is wished to be on a founder's intentions (meaning whether a Company is wished to be seen in another role), sometimes—is conditioned by external seen in another role, sometimes—is conditioned by external factors (a brooduct demand changed, market conditions)

there and have med

The industry rebers to the production of finished goods from read materials. It denotes the production activities of the business. The goods produced in the industry are both producers good and Consumers good. The activities performed in industries require both technical and mechanical skills.

A group of forms which produce the Same goods and sexuices are terned as an inclustry. The industry is a business which instees processing training, and producing goods. It leads to the formation of utility by Creating Consumer goods ready fore direct Consumption. Innover of industrial Sector is important for the development of the Country. Industries are the one responsible for the Commerce and trade of the Country?

- Commerce involves ay the activities that aid in promoting the exchange of goods and services from the manufacturer to the last Customers.

Treade is restorted to as a basic economic activity that sovolves buying & selling of different goods and services between two or more parties involved in the treansaction.

Primary Industry

This sector of a nation's economy includes agriculture, forestry, fishing, mining, quarrying, and the extraction of minerals. It may be divided into two categories: genetic industry, including the production of raw materials that may be increased by human intervention in the production process; and extractive industry, including the production of exhaustible raw materials that cannot be augmented through cultivation.

The genetic industries include agriculture, forestry, and livestock management and fishing—all of which are subject to scientific and technological improvement of renewable resources. The extractive industries include the mining of mineral ores, the quarrying of stone, and the extraction of mineral fuels.

Primary industry tends to dominate the economies of undeveloped and developing nations, but as secondary and tertiary industries are developed, its share of the economic output tends to decrease.

It is one which uses natural resources as their raw materials. These industries depend upon nature for caring out of their activities. These take out the raw materials from the earth's surface. They are found in areas where these

natural resources are easily found. Breeding and Reproduction of species come under the primary industry. These industries require little effort and don't require any processing stage. These are divided into two Extractive industry & Genetic industry. The extractive industry is one which acquires natural resources. The genetic industry is one which aims at the breeding of species.

Secondary Industry

These industries depend on the primary industry for their activities. They use the goods produces by the primary industry as their raw material. These industries create form utility by producing consumer-ready products. It involves the conversion of raw material into finished good using manpower and machines. Secondary industries are of 2 types: **Manufacturing** and **Assembling industry**.

This sector, also called <u>manufacturing</u> industry, (1) takes the raw materials supplied by primary industries and processes them into consumer goods, or (2) further processes goods that other secondary industries have transformed into products, or (3) builds capital goods used to manufacture consumer and nonconsumer goods. Secondary industry also includes energy-producing industries (*e.g.*, hydroelectric industries) as well as the <u>construction</u> industry.

Secondary industry may be divided into heavy, or large-scale, and light, or small-scale, industry. Large-scale industry generally requires heavy capital investment in plants and machinery, serves a large and diverse market including other manufacturing industries, has a complex industrial organization and frequently a skilled specialized labour force, and generates a large volume of output. Examples would include petroleum refining, steel and iron manufacturing, motor vehicle and heavy machinery manufacture, cement production, nonferrous metal refining, meat-packing, and hydroelectric power generation.

Light, or small-scale, industry may be characterized by the nondurability of manufactured products and a smaller capital investment in plants and equipment, and it may involve nonstandard products, such as customized or craft work. The labour force may be either low skilled, as in <u>textile</u> work and clothing

manufacture, <u>food processing</u>, and plastics manufacture, or highly skilled, as in <u>electronics</u> and computer hardware manufacture, precision instrument manufacture, gemstone cutting, and craft work.

Tertiary Industry

These industries are termed as aids to trade as they help in trade. This industry provides service facilities to other industries. Primary & secondary industry depends on these industries for their role. They do not produce any goods like primary and secondary industry. Examples of tertiary industry: transport, insurance & banking industry.

This sector, also called **service industry**, includes industries that, while producing no tangible goods, provide services or intangible gains or generate wealth. In <u>free market</u> and mixed economies this sector generally has a mix of private and government enterprise.

The industries of this sector include banking, <u>finance</u>, insurance, investment, and real estate services; wholesale, retail, and resale trade; <u>transportation</u>, information, and communications services; professional, consulting, legal, and personal services; tourism, hotels, restaurants, and entertainment; repair and maintenance services; education and teaching; and health, social welfare, administrative, police, security, and defense services.

Small Scale Industries

Essentially small scale industries comprise of small enterprises who manufacture goods or services with the help of relatively smaller machines and a few workers and employees. Basically, the enterprise must fall under the guidelines set by the Government of India. At the time being such limits are as follows,

 For Manufacturing Units for Goods: Investment in plant and machinery must be between 25 lakhs and five crores. For Service Providers: Investment in machinery must be between 10 lakhs and two crores.

In developing countries like India, these small scale industries are the lifeline of the economy. These are generally labour-intensive industries, so they create much employment. They also help with per capita income and resource utilization in the economy. They are a very important sector of the economy from a financial and social point of view.

Examples- bakeries, school sanitaries, water bottle, leather belt, small toy, paper bag etc

What are Large Scale Industries?

Industries which require huge infrastructure and manpower with an influx of capital <u>assets</u> are Large Scale Industries. In India, large-scale industries are the ones with a fixed asset of more than one hundred million rupees or Rs. 10 crores.

The Indian economy relies heavily on such industries for <u>economic growth</u>, generation of foreign currency, and the creation of job opportunities for millions of Indians.

What are Large Scale Industries?

Large scale industries are referred to as those industries that are having huge infrastructure, raw material, high manpower requirements and large capital requirements. Those organisations having a fixed asset of more than 10 crore rupees are considered to be large scale industries.

The growth of the economy is very much dependent on these industries. Such industries work towards bringing in foreign reserves, generating employment opportunities and paving the way for economic growth.

Large Scale Industries in India

Large scale industries in India can be categorised into the following types of industries:

- 1. Iron and Steel Industry
- 2. Automobile Industry
- 3. Textile Industry

Advantages of Large Scale Industries

Large scale industries offer the following advantages:

- 1. Large scale industries use the latest machinery and technology, which helps in improving the production. Due to large scale production, the companies benefit as well as it is beneficial for the economy as a whole.
- 2. Large scale industries help in the development of industries in the economy, which is essential for industrialisation.
- 3. Large scale industries require skilled workers and therefore, the development of large scale industries help in the development of a skilled workforce in the country.
- 4. Large scale industries require large amounts of raw materials, which opens up employment opportunities in the related sectors.
- 5. As large scale industries are involved in large scale production, it provides an opportunity to reduce the cost of goods and services as these are produced in bulk.
- 6. Large scale industries help in the development of small scale industries, as the requirement of items cannot be met only by a single industry.

Hence, small scale industries are required to produce the ancillary products and therefore small scale industries thrive on the growth of large scale industries.

7. Large scale industries can incur expenses required for research and development as they have a high influx of capital. Such research will help in generating more profits in future.

8. Large scale industries also help improve the quality of life of its employees by providing them with adequate remuneration and other benefits.

What is Medium Scale Business?

Before we go into the different aspects of medium scale business, we need to understand what is medium scale business. When we look at it, according to the Indian Government, we call a company medium scale industry when their overall investment is more than Rs. 5 crores, and also less than Rs. 10 crores.

Medium-scale industries in India contribute significantly to manufacturing output, employment, and exports of the country. It is estimated that in terms of value, the sector contributes 45% of manufacturing production and 40% of total exports of the country. The area is assessed to utilize around 69 million people in more than 26 million units all through

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Entrepreneurial support agencies at national level and district level:

(1) District Industries Centers :-

- The DICs came into existence in the year 1978. The realization of the need to make
 the district as a focal point of industrial planning and development crystallized in the
 establishment of DICs.
- The DICs are considered as an institutional innovation to assist small scale industrial
 units at three important stages viz., pre-investment, investment and post-investment
 stages. They are also considered as a single window of clearance for industrial units.
- The DIC therefore is expected to provide all the services and facilities to entrepreneurs under a single roof for setting up small and village industries.
- · There are three important functions, which the DICs could discharge profitably.
- The DICs should act as a data bank, an information bank and a dissemination centre, for giving prompt up-to-date and reliable information to anybody trying to set up a small scale unit and the information would not only be with regard to licensing procedures but also about what is in the realm of feasibility and what is not.
- The DICs should function in a close coordination with all agencies related to industrial development at the district level. To ensure this, there should be a single

line of command operating from the DIC for the entire field staff connected with industrial promotion activities.

Functions of District Industries Centers:

- (i) To survey existing, traditional and new industries, raw materials and human resources; to identify schemes and make market forecasts for different items; to prepare sample techno-economic feasibility reports and offer investment advice to entrepreneurs.
- (ii) To assess the machinery and equipment requirements of small scale, tiny and village industries; indicate the locations where machinery and equipment for different plants may be available for entrepreneurs, to liaison with research institutions and arrange for the supply of machinery on hire purchase basis;
- (iii) To arrange for training of entrepreneurs of small and tiny units and liaison with small scale industries service institute, small scale industrial extension training institute and other institutions, to keep abreast of research and development in selected product lines and

quality control methods;

- (iv) To ascertain the raw material requirements of various units, their sources and prices and to arrange for their bulk purchases and distribution to entrepreneurs;
- (v) To liaison with lead banks and other financial institutions, appraise applications, monitor the flow of industrial credit in the district, and arrange for financial assistance to entrepreneurs;
- (vi) To organize marketing outlets, to liaison with government procurement agencies, convey market intelligence to entrepreneurs, organize market surveys and market development programs;
- (vii) To give particular attention to the development of Khadi and Village and other cottage industries, to liaison with State Khadi and Village Industries Board and organize training programs for rural artisans;
- (viii) To provide immediate aid required by entrepreneurs in respect of power supply, licenses required under municipal and health departments and Factories Act for establishment of industries;
- (ix) To assist entrepreneurs in allotment of work sheds or sites required for establishment of industries in industrial estates:

- (x) To help in arranging hundred percent loans to educated unemployed belonging to scheduled castes, scheduled tribes and socially or economically backward communities for starting industries under special employment schemes;
- (xi) To help in extending suitable technical training to rural youth to pursue selfemployment schemes;
- (xii) To assist in arranging grant of central and state government concessions and interest free sales tax loans, to provide capital for purchase of plant and machinery, construction of buildings and allotment of sites to new industrialists;
- (xiii) To assist entrepreneurs of small-scale units in establishing industries collectively by formation of industrial cooperatives;
- Each of the DIC is headed by one General Manager; who is responsible for the
 overall coordination and development of small scale industries including village
 industries in the district, and ensures the implementation of action plans drawn up
 for promoting and developing small scale, cottage and village industries, initiating
 the massive program of rural industrialization; identification of growth centers in the
 district.
- Four functional managers assist the general manager. They look after four disciplines viz., Economic Investigation-Information & Infrastructure (EI&II), Credit, Raw Materials & Marketing and Village Industries & Training (VI&T). They are to be assisted by three project managers and a number of extension officers.

National Small Industries Corporation (NSIC)

The NSIC was set up in 1955 with the objective of **supplying machinery and equipment** to small enterprises on a **hire-purchase basis** and assisting them in procuring Government orders for various items of stores. NSIC provides a wide range of promotional services to small scale units.

The Corporation's Head Office is at Delhi and it has four regional offices at Delhi, Bombay, Madras and Calcutta, and eleven branch offices. It has one central liaison office at Delhi and depots and sub-centres. The main functions of NSIC are:

- Composite Term Loan Scheme: To promote small-scale sector, NSIC
 has launched a Composite, Term Loan Scheme for the benefit of existing
 and prospective entrepreneurs to acquire land and building, machinery and
 equipment and working capital under one roof to the tiny units.
- Hire Purchase Scheme: Supply of indigenous and imported machinery and equipment on each financial terms with special focus on women entrepreneurs, weaker sections, handicapped and ex-servicemen and SC/ST entrepreneurs.
- Equipment Leasing: It is done mainly to facilitate SMEs to expand their capacities or diversify and/or upgrade their technology according to the needs of the market.
- Working Capital Finance: This Scheme aims at augmenting working
 capital of viable and well managed units, on selective basis in case of
 emergent requirements in enable them to pay-off their purchase of
 consumable stores, spares and production related overheads particularly
 electricity bills, statutory dues.
- Raw Material Assistance: It facilitates availability of scarce raw material either through the domestic market or by importing.
- Marketing Support Programme: NSIC has been trying to act as a major agency to bring SMEs closer to various Governmental purchasing agencies with the intending of creating confidence in the purchasing agencies about SMEs, and their capabilities to supply goods and services of requisite quality economic prices and adherence to agreed delivery scheduling.
- Tender Marketing: To participate in bulk global tender on behalf of Small Scale Industrial Enterprises. It is a immediate assisting SSI's with the ability to manufacture quality products but which lack brand equity & credibility or have limited financial capabilities.
- Integrated Marketing Support: NSIC has been operating an Integrated
 Marketing Support Programme in which bills pertaining to supplies made
 by small scale units to eligible purchasers are discounted by NSIC up to a
 certain specified limited.

- Government Stores Purchase Programme: The units registered with the Corporation for participation in government purchase programme are considered at or with individual purchase organisations and derive all the benefits like free supply of tender forms, exemption form payment of earnest money, security deposits, etc.
- Technology Up gradation: Excellent technical support is provided to SSIs/SMEs through five NSIC-Technical Service Centres. These centres have been recognised by Council of Scientific and Industrial Research for in-house R&D. NSIC has set up a Technology Transfer Centre. The latest information is provided to on-line connections and networks of computers on matching technology seekers and technology providers are arranged through the Technology Transfer Centre.
- Software Technology Parks: NSIC has set up a NSIC-STP Complex under Software Technology Parks of India (STPI). Software Technology Parks facilitates small scale units to establish their units for the 100% export of software and also act as the major point activate software exports directly through NSIC.
- NSIC-STP Complex at Okhla, New Delhi is one of such Parks set up by the National Small Industries Corporation under the Software Technology Parks of India to promote small entrepreneurs in software development. NSIC-STP provides high speed better communication facilities through VSNI/SATCOM networks, built-up office space and uninterrupted power supply break-up and other administrative support.
- Exports: NSIC is providing a complete package of export assistance, testing facilities, pre shipment credit facility, export incentives etc. apart from exposure to the products of SSFC in trade fairs, buyer and seller meets etc. the corporation has been endeavouring to increase share of India.
- Industries in purchases to United Nations Organisation, it being the largest single buyer in the world.

Orissa Small Industries Corporation Limited (O.S.I.C.)

The Orissa Small Industries Corporation Limited (O.S.I.C.) was established in the year 1972 under the Companies Act, 1956. Its main objective is to aid, assist and promote Small Industries in Orissa and to provide them with assistance for the procurement and acquisition of raw material for their business and assist them to improve their methods of manufacture, technique of production and marketing of their goods.

In order to achieve the above objectives, the Government has introduced many promotional

schemes through O.S.I.C., such as :-

- (i) Hire Purchase Loan Scheme
- (ii) Seed Capital Loan Scheme
- (iii) Raw Material Credit Assistance Scheme
- (iv) Factoring (Marketing) Assistance Scheme,
- (v) Lunched O.T.S. Scheme for financial settlement of due for defaulting S.S.Is.

Industrial Finance Corporation of India Ltd.: The Industrial Finance Corporation of India was set up by the Government of India under IFC1 Act in July 1948. It is an important financial institution which gives financial assistance to the entrepreneurs through rupee and foreign currency loans, underwriting, direct subscriptions to shares, debentures and guarantees. It also extends other financial facilities like equipment procurement, equipment finance, buyer's and supplier's credit, equipment leasing and finance to leasing and hire-purchase companies.

The IFCI has devised new promotional schemes such as

- Consultancy fees, subsidy schemes for assisting small scale entrepreneurs in marketing sector.
- Interest subsidy schemes for women entrepreneurs.
- Pollution control in small and medium scale enterprises.
- · Encouraging the modernisation of tiny, small and medium scale industries

Commercial Banks

Commercial Banks are those profit seeking institutions which accept deposits from general public and advance money to individuals like household, entrepreneurs, businessmen etc. with the prime objective of earning profit in the form of interest,

commission etc. Examples of commercial banks – ICICI Bank, State Bank of India, Axis Bank, and HDFC Bank

Functions -

The main functions of commercial banks are accepting deposits from the public and advancing them loans.

However, besides these functions there are many other functions which these banks perform. All these functions can be divided under the following heads:

- 1. Accepting deposits
- 2. Giving loans
- 3. Overdraft
- 4. Discounting of Bills of Exchange
- 5. Investment of Funds
- 6. Agency Functions
- 7. Miscellaneous Functions

1. Accepting Deposits:

The most important function of commercial banks is to accept deposits from the public. Various sections of society, according to their needs and economic condition, deposit their savings with the banks. This deposits are in different form.

(i) Current Deposits:

The depositors of such deposits can withdraw and deposit money whenever they desire.

(ii) Fixed Deposits (Term deposits)

These are the deposits which are deposited for a definite period of time. This period is generally not less than one year and, therefore, these are called as long term deposits.

(iii) Saving Deposits:

In such deposits, money upto a certain limit can be deposited and withdrawn once or twice in a week. On such deposits, the rate of interest is very less.

(iv) Recurring deposits:

In such deposits money is deposited for a fixed period in monthly installments basis and is repaid to the depositors along with the interest on maturity.

2. Giving Loans:

The second important function of commercial banks is to advance loans to its customers. Banks charge interest from the borrowers and this is the main source of their income.

Banks generally give following types of loans and advances:

(i) Cash Credit:

In this type of credit scheme, banks advance loans to its customers on the basis of bonds, inventories and other approved securities.

(iii) Demand loans:

These are such loans that can be recalled on demand by the banks. The entire loan amount is paid in lump sum by crediting it to the loan account of the borrower, and thus entire loan becomes chargeable to interest with immediate effect.

(iv) Short-term loan:

These loans may be given as personal loans, loans to finance working capital or as priority sector advances. These are made against some security and entire loan amount is transferred to the loan account of the borrower.

3. Over-Draft:

Banks advance loans to its customer's upto a certain amount through over-drafts, if there are no deposits in the current account. For this banks demand a security from the customers and charge very high rate of interest.

4. Discounting of Bills of Exchange:

Under this system, banks advance loans to the traders and business firms by discounting their bills. In this way, businessmen get loans on the basis of their bills of exchange before the time of their maturity.

5. Investment of Funds:

The banks invest their surplus funds in three types of securities—Government securities, other approved securities and other securities. Government securities include both, central and state governments, such as treasury bills, national savings certificate etc.

Other securities include securities of state associated bodies like electricity boards, housing boards, debentures of Land Development Banks units of UTI, shares of Regional Rural banks etc.

6. Agency Functions:

Banks function in the form of agents and representatives of their customers. Customers give their consent for performing such functions. The important functions of these types are as follows:

- (i) Banks collect cheques, drafts, bills of exchange and dividends of the shares for their customers.
- (ii) Banks make payment for their clients and at times accept the bills of exchange: of their customers for which payment is made at the fixed time.
- (iii) Banks pay insurance premium of their customers. Besides this, they also deposit loan installments, income-tax, interest etc. as per directions.
- (iv) Banks purchase and sell securities, shares and debentures on behalf of their customers.
- (v) Banks arrange to send money from one place to another for the convenience of their customers.

7. Miscellaneous Functions:

Besides the functions mentioned above, banks perform many other functions of general utility which are as follows:

- (i) Banks make arrangement of lockers for the safe custody of valuable assets of their customers such as gold, silver, legal documents etc.
- (ii) Banks give reference for their customers.
- (iii) Banks collect necessary and useful statistics relating to trade and industry.
- (iv) Banks facilitating foreign trade, banks undertake to sell and purchase foreign exchange.
- (v) Banks advise their clients relating to investment decisions as specialist
- (vi) Banks does the under-writing of shares and debentures also.
- (vii) Banks issue letters of credit.
- (viii) During natural calamities, banks are highly useful in mobilizing funds and donations.
- (ix) Banks provide loans for consumer durables like Car, Air-conditioner, and Fridge etc.

KHADI AND VILLAGE INDUSTRIES COMMISSION (KVIC)

KVIC was established in 1953 with the primary objective of <u>developing Khadi and Village industries</u> and <u>improving rural employment opportunities</u>. Its wide range of activities include training of artisans, extension of assistance for procurement of raw materials, marketing of finished products and arrangement for manufacturing and

distribution of improved tools, equipment and machinery to producers on concessional terms.

KVIC provides assistance to Khadi and Village industries which are characterised by low capital intensity and ideally suited to manufacturing utility goods by using locally available resources. There are about 26 specified village industries such as processing of cereals and pulses, leather, cottage matches. Gur and Khandsari, palm gur, non-edible oils and soaps, bee-keeping, village pottery, carpentry and blacksmithy, gobargas, household alluminium utensils, etc.

KVIC's policies and programmes are executed through 30 State Khadi and Village Industries Boards, 2320 institutions registered under the Societies Registration Act. 1960 and about 30,600 Industrial Cooperative Societies registered under State Cooperative Societies Act. Activities involving pioneering types of work, such as developing new industries in hilly, backward and inaccessible areas are undertaken by KVIC directly.

National Bank for Agriculture and Rural Development (NABARD)

NABARD (the National Bank for Agriculture and Rural Development) was established

on 12 July 1982 to implement the National Bank for Agriculture and Rural Development Act

1981. It replaced the Agricultural Credit Department (ACD) and Rural Planning and Credit Cell (RPCC) of Reserve Bank of India, and Agricultural Refinance and Development Corporation (ARDC).

It is one of the premier agencies to provide credit in rural areas.

NABARD is India's specialised bank. NABARD Associates ranges from World Bankaffiliated organizations to global developmental agencies working in the field of
agriculture and rural development. These organizations help NABARD by advising and
providing monetary aid for the upliftment of the people in the rural areas and optimizing
the agricultural process.

NABARD has its head office at Mumbai, India. NABARD operates throughout the country through its 28 Regional Offices and one Sub-office, located in the capitals of all the states/union territories. Each Regional Office[RO] has a Chief General Manager [CGMs] as its head, and the Head office has several Top executives like the Executive Directors[ED], Managing Directors[MD], and the Chairperson. It has 336 District Offices

across the country, one Sub-office at [[Port Blair]] and one special cell at Srinagar. It also has 6 training establishments.

The Government of India, which now holds 99% stake of NABARD.

Role

NABARD is the apex institution in the country which looks after the development of the cottage industry, small industry and village industry, and other rural industries. NABARD also reaches out to allied economies and supports and promotes integrated development. And to help NABARD discharge its duty, it has been given certain roles as follows:

- Serves as an apex financing agency for the institutions providing investment and production credit for promoting the various developmental activities in rural areas.
- Takes measures towards institution building for improving absorptive capacity of the credit delivery system, including monitoring, formulation of rehabilitation schemes, restructuring of credit institutions, training of personnel, etc.
- Co-ordinates the rural financing activities of all institutions engaged in developmental work at the field level and maintains liaison with Government of India, State Governments, Reserve Bank of India (RBI) and other national level institutions concerned with policy formulation
- Undertakes monitoring and evaluation of projects refinanced by it.
- NABARD refinances the financial institutions which finances the rural sector.
- The institutions which help the rural economy, NABARD helps develop.
- NABARD also keeps a check on its client institutes.
- It regulates the institution which provides financial help to the rural economy.
- It provides training facilities to the institutions working the field of rural upliftment.
- It regulates the cooperative banks and the RRB's, and manages talent acquisition through IBPS CWE.

NABARD's refinance is available to State Co-operative Agriculture and Rural Development Banks (SCARDBs), State Co-operative Banks (SCBs), Regional Rural Banks

(RRBs), Commercial Banks (CBs) and other financial institutions approved by RBI. While the

ultimate beneficiaries of investment credit can be individuals, partnership concerns,

companies, State-owned corporations or co-operative societies, production credit is generally given to individuals.

NABARD is also known for its 'SHG Bank Linkage Programme which encourages India's banks to lend to [[self-help group (finance)|self-help groups]] (SHGs). Because SHGs are composed mainly of poor women, this has evolved into an important Indian tool for

microfinance. As of March 2006 22 lakh SHGs representing 3.3 crore members had to been

linked to credit through this programme.

NABARD also has a portfolio of Natural Resource Management Programmes involving diverse fields like Watershed Development, Tribal Development and Farm Innovation through dedicated funds set up for the purpose.

9) Technology Business incubator (TBI)

Technology Business incubator (TBI) is an entity, which helps technology-based start-up businesses with all the necessary resources/support that the start-up needs to evolve and grow into a mature business. Typically, TBIs provide budding entrepreneurs all necessary infrastructure support, technology/prototype development support, research assistance, help in getting funding, business consulting assistance, marketing assistance and do whatever is necessary to make the start-up a success.

The primary goal of a business incubator is to facilitate economic development by improving survival and growth of new entrepreneurial units. Incubators accelerate the development of young entrepreneurial units from 'idea stage' to independent self-sustaining successful business. The phenomenal growth of the incubators has taken place world over in last two decades. The concept has benefited many countries in utilizing technology as a means for their economic development.

In the form of a business centre, the TBI provides incubatees an initial place of operation equipped with supportive environment in which services such as assistance in technology, hands-on management, mentoring, business plan development, exposure to

Venture Capital and Institutional Capital and all other operational business/finance related needs involved in starting and growing a technology company.

Science & Technology Entrepreneurs Park (STEP)

The Science & Technology Entrepreneurs Park (STEP), was the scheme launched by the Department of Science & Technology, Government of India in the early part of 1980's. The core philosophy behind the programme was to convert "Job Seekers to become Job Creators". It main objective was to help in creating an atmosphere and awareness for youth to take up entrepreneurship, initiate active interaction between academic institutions and industries for sharing ideas, knowledge, experience and facilities for the development of new technologies and their rapid transfer to the end user.

In a period spanning 15 years, about 14 STEPs were established in premier academic Institutions from both Government and Private Sector.

Objectives

- To forge a close linkage between universities, academic and R&D institutions on one hand and industry on the other.
- To promote entrepreneurship among Science and Technology persons, many of whom were otherwise seeking jobs soon after their graduation.
- To provide R&D support to the small-scale industry mostly through interaction with research institutions.
- To promote innovation based enterprises.

of minimizers the ming ->

Preliminary Project report

Preliminary Project report is re formal document that describes specific activities, events, occurrences, on subjects of a project to explain progress of the project up to a Certain point in time (but not later than Completion time). This document is presented and communicated at project status meetings to explain what goals, deliverables and results are produced and what activities one istill in progress. The document server as the basis for developing the final project report.

The preliminary project report should include;

i) problem/need -> A clear description of the problem commed the project aims to handle.

ii) proposed Solution -> The idea for solving the problem should be described.

This need not be Complete yet but should include specific ideas.

iii) Work effort -> An analysis summary of work including activities completed and unbinished.

"> Evaluation -> an analysis and assessment of project work by specific Crotexia such as cost-effectiveness, feasibility, manageabology, portonomence, others.

vi) Schedule -> a timeline with specific milestones and events related to project work.

Detailed Project Report (DPR)

A detailed project suport is extremely important in order to two the idea of the project into reality.

The project into reality.

The project reach towards success to make the project reach to the broofest reach.

→ If the project suport is prepared by fulling or tremendous remount of work into details we will swelly get the good results to later.

- The important points of DPR are; i) Minimizing the ring - It is crucial to identity and to oreduce the Risks as much as possible so that the project its opplemented without any Obstacles. That means it suporting the air to the project manager before the implementation that makes the soon for improvement. ii) Managing the budget -> Managing the budget on expenditure is not an easy task especially when you have to look ou so many aspects of your Project. Hence a SPR comes to viescue rand helps to plan and manage the budget. project progress follow up -> It must have control on the project progress No that we can keep a track of ischedule of the project rend eliminate -problems. is) Hold over the project -> Project suporting maintains hold over the higher authority such en managers over the project so that they can keep our Check on progress and eliminate factors that can cause a halt on progress is - propered solution -> on the braject. Techno economic Feasibility Objective of techno-economic feasibility is to determine the technical fearibility and financial viability of the project, assess the risks associated with the project and specify immediate actions that are required to be taken. It helps a client to get a detailed evaluation of a project. Techno-economic fearibility studies cover the following based on the clients Juquirement: -> Markets Withing From Sunce (1888) - Raw materials of Fuel -> plant setting, Location of Intrastructure - Project Technical Concept -> Logistics -> lenvarconment -> Implementation planning -> Human Resources (Requorement and Cost) Investment Cost (Fund orequirement) - Operating Cost Financial Approximal Risky and Miltogation

Every business project has stated outcomes that needs to be met in Order to be viable on profitable. A project is not veable it its value exceeds the Cost Sometimes the Cost viability of a project can change over the course of projects development. A project that is not on brack from a percepactive can loose its Viability. Loosing key members of the stable can cause a prioject loosing its viability. If the quality of ra project in not as for expected on ranticipated then the project can loose its viability. (in Quality Project Presentation Guidelines is the presentation ishould be 15 minutes long with a 5 minutes of question issued as the second abternande. isession atterwards. is the presentation should be polished rend a carefully planned pertonmence. ii) The Outline uncluded on the document must be followed. is Include a short perbormance like demonstration of a program of a powerpoint presentation. y heach member of the group must play a significant role during the presentation. Project Presentation Outline 1) Introduction > It uhould bummarise the projects purpose and program. @ Goals -> Related programme going into the project. 3 Constraints - The limitations to be faced during the Course of project. 9 Lethics -> Lethical Concerns (Morral value). 3 Challenges -> Both expected and encountered @ Demo - to show something release the project. 3 Accomplishment -> The Objectives we have met @ future work -> What will be continued with the project in any town 1 leave time for questions

lips on giving good presentation > practice ahead of time is Start with an Outline and end with a Conclusion iii) Be contident in Speak clearly >> Maintain eye Contact with audience ve) Use vesual aids vii) Consider using handouts. Projects Status Reports Project Status reports is accomplished to serve the following purpose; (i) To keep an updated blow of intronmation related projects progress.

(ii) To immediately address visues and concerns during the implementation of the project. tie, To document vieasons for changes and redjustment made to the Original plan. (iv) to monitor the utilisation of fund. (v) To verve as a basis for decision making and addressing problem. (vi) To keep a brack of Endivadual performance as well teams performance. (vii) 70 act eu a uniborn procedure for Communicating project development to stake holders.

Management Proinciples

Management in the process of designing and maintaining ran environment in which individuals working together in groups, efficiently accomplish desired goals. Management is a process involving planning, Organising, istabling, donecting and controlling human effort to achieve organisation objectives.

(i) Management as an economic resource: The four important economic resources;

(a) land

(b) labour

(c) Capotal

(d) centrepreneurship

(ii) Management as to group: -Management embrace au duties and functions ser la group to certain goal.

Abtain en Certain goal.

(iii) Descipline: -Management is a Multi désciplinary désciplines.

in Management in as wet of directing and inspiring people.

(v) Management ras a process: Management ris distinct process consist of planning, organising, stabling, directing of perbonning. my pulice turyonicality ->

Characteristics of Management

Management is;

(E) Goal presented

(ii) process

(iii) Givoup Actoraty.

(iv) universal

(v) oscoence

(vi) Synamic froces

(vi) Important Organ of society

Villy Economic resource

and probessor transported to southernt

and the state of the state of the state of

to the same that the same is

inguise? "girl, will a grant a service and a

of Murragement

) Market standing ->

- incorrection -

v bootic ->

(a) system of Authority

| Objectives of Management |
|--|
| 6) Market standing |
| 16) |
| in Snoductisty |
| iv) physical rend financial resources |
| v) probat |
| vi) Management performance |
| va) Worker performance |
| |
| Nould be like to ramong the competitions |
| would be like to among the competitions |
| is Annovation -> Management ishauld vaid objectives ispectifying it Commitment to the development of new method of co-operation. |
| to the development of new method of co-operation. |
| - Production - Thomas with contrast contrast contrast contrast |
| production. |
| in) physical and financial resources -> Management should set objectives with |
| Jugard to use and maintainance of capital and |
| y) profit -> St unbuild isplicitly the splicities the congressed of |
| generate. |
| vs) Management performance - It should specify the managerial productivity |
| end grawn. |
| vas) whomer perbonmance - It would specify the workers freductivity and |
| vow) public responsibility -> Management should work for the uplottment of |
| the society. |
| Answertance of Management |
| According to poter ducker, Management is the dynamic, life gaining |
| According to poter ducker, reanagement is the dynamic, like gaving plement in every business, wethout it the resources of production will remain |
| 7 Carrier of The Carr |
| The followings are the importance of management; |
| - It provides effectiveness to human abbonts. |
| > It in a critical ingredient in countries growth. |
| It brings order to projects. |

-> It provides Judgement rand courage. -> It helps in achieving group goals. -> It ensures efficient use of susources. -> It assists in meeting the challenges of the stapidly growing environment. - It in a crucial factor in economic rend vocal development. Managerial Skills (b) Conceptual skills in Human iskills (ii) Technical skills -> Management vieguèred iseveral iskalls to be isuccessful in his/her job.

-> A manager un isuccessful when he is rable to make ismooth functioning team of beoble working under him -> He subordinates we able to use the material versousces in the best-bossible manner. team of people working under him. possible manner. > The skills of a marager may be classified into several categories; es re whole, to recognise interrelationship remong different functions of the business rend external forces and to guide the Organisation in the most little and amongs. people both as individual and res a team. These skills are the abilities needed to revolve contlicts, niotivate, lead-and Communicate effectively with others. (iii) Technical Skills -> Such skills refer to the Estility and knowledge in using the equipments techniques and procedure involved in perbonning. (h) Nagnotic skells -> Such skells include the rability to determine by analysis of examination. The nature rand the Concumstances of a pactocular Condition. - Thus diagnostic skill are the abolities to quarkly get at the true Cause of a Certain situation through data, Observation, and facts.

Management in an Ant on Science? louplain. And is In the management literature, it is often discussed whether management (ii) Ant ii Concerned with the application of Knowledge send Iskills to achieve (iii) Lince each and every manager has to apply certain knowledge and estills while dealing with the people to achieve the desired results, management is ren art. (iv) Management requires ra vast knowledge and Certain innovating, initiating, implementing and integrating eskell in relation to goals, resources techniques and results, The skills that a manager needs are planning skills, the Organisa Skills, the stabling skells, the directing skills and the Controlling skills. (V) As Knownth rand O'Donnell have sightly pointed out, the work of managing a business or any group activity is an out. But for this the organised body of knowledge in required. So management in also a science. (ve, iscience in a systematically organised body of knowledge based on foroper findings and exact Brinciples Land is capable of veribication. (vii) The principles of management have been evolved the practical experience rend theoretical research over several decades. The researchers in management use scientità techniques to collect and analyse data rebout human behavious. Several principles have been developed which establish cause rend effect relationship. (viii) However, management in not la perbect scource, because it deals work human beings rand it is very debbaut to predict the human behaviour. accurately. science, but a combination of both.

Ans: (E) Managing involves planning, Organising, Statting, directing and Controlling for the accomplishment of Organisational goals. Any person who perbooms these functions in a manager. 02/ Managers are born or made? Intigaten. Other resource to collection the effective utilization of human and Other resources to achieve Organisational objectives. (in) The adtributes, a successful manager other possesses, were good presionality, Sound health, clear voice, high stamina, fatience, sharp memory, initiative, education and training, intelligence, leadership, technical skill, knowledge of to be Surrent in the case qualities are orbons, while others can be aguined on order to be successful in the work, These additional qualities can be added or improved only through braining and management development programmes. (1) Combination of trained and indong qualities can make good managers. (vi) It has been now established and accepted that it is through proper leaving and training process that skilled managers are developed. (vii) It in more important that the person to be a good manager must possess technical and vocational knowledge of the organization. (vaii) Hence, the need for a debonote programme designed spectally for executive development should be emphasozed. These principles establishes the course and effect vielationshop between two on more variables in Order to provale qualities guidelines for managerial decision making and raction. Need of Management principles: -> No increase the elborishey of management in understanding of Solvery the managerisal problems. -> TO Crystalexe the nation of management. -> to true and develop managers. -> 10 Enthuence human behaveour. -> To ensure the constant supply of goods of Service. → to attain the social objectives. → To improve research in management.

The principles of management have been developed and established on Nature of Maragement principle: the basis of experience and observation of facts. Hence the management prenciples are characterized by the following features; 2. Universal - Management principles are universal that means these can be rapplied in defferent setuations like military, hospital, ischool etc. 2. Evolutionary -> Management preheiples are evolutionary on the Serve that these have been developed on the basis of facts rand observations. 3. Dynamic - This means these rare flexible or nature. It can be supplied in different ways under detterent situations. 4. Relative - Management principles are relative not absolute. They must lee utilised in changing and special conditions. It is a matter of knowing how to make use of these principles intelligently and with experience. 5. Behavioural -> These are behavioural on the sense that it aims at influencing individual ebbords and motivating them towards the maximization Of visitaces with minimum wastage. Universality of Management principles: (i) The concept and pranciples of management have universal application. be transferred from one country to another on from one Organization to another within the same country. > The universality of principle of management is due to emphasis on the functions of management that are planning, establing, Organising, directing, of the university is due to fundamentals of management not due to. Controlling. techniques of management. The universality is due to Common problems of effective use of resources like time efforts and capital. peter F. Drucker argued that the skilli and the experience of management can not be transferred and applied from one Organisation to management different objection another having different objectives.

in both democratic and Communist rountries in both democratic and Communist Countries. Function of Namagerant Functions of Management The Elements of management fracess rare known as functions of management.

The functions of management are generally divided into 5 Categories;

(i, planning ci, planning (ii) Organizing (li) Stabling (ur) Directing (v) Controlling (i) planning - It is the preimary function of management.

- It involves determining the objectives and selecting a course of action to achieve them. - It is on intellectual process. - It is the process of establishing responsibility relationship remong the mainbers of the enterprise. (ii) Organising - The process of Organising Convists of

(a) determining the activities required to achieve the goals. (b) Gouping on unit (c) Assegning specific duties de specific ferson (d) Defining the responsibility of every forson (e) Retablishing vertical and honixontal authority responsibility. . It is the process of felling au the fosition on the Organisation with Jabbing Stabbing It consists of man fower, recruitment, training, maintenance of qualitized personnel. employees.

cir, Streeting Directing in the managerial function of quiding, supervising, motorating and leading people towards the attainment of targets. Directing consests of the process and techniques utilized on issuing instructions and certain that the operations were covered out as per planned. (V) Controlling of front managerial function that vielates to measurement and connection - It is the process of determining what is to be accomplished that is the Standard, what has been accomplished that is the performance and it recessary taking the connective measures. of perbonnance: - It basically involves; (5) Establishing of Standard (ii) Measurement of perbormance (iii) Comparing the performance with standard (w) Connecting the deviations. Level of management is Organisation Most Organizations have three management levels; (1) Low-level managers (2) Niddle-level managers and (3) top-level managers These managers are classified in a hierarchy of authority and feeturn different tasks. In many organizations, the number of manager in every level resembles a pyramed. (1) Low-level managers Supervisores, Section Leads, and foremen are examples of low-level management tatles. These managers focus on Controlling and directing. Low-level managers usually have the responsibility of; Assigning employees tasks Guiding and Supervising employees on day to-day activities. Ensuing the quality and quantity of production Making recommendations and suggestions rand Up channelling employee problems.

Also restaved to as first-level managers, low-level managers are gible riodels for employees. These managers protode - Basic Supervision - Motivation - Career planning - perbonnance feedback; and - Stabl Supervision (2) Middle-Level Managery General managers, branch managers, and department managers are coll Iramples of middle-level managery. They are accountable to the top management Middle-level managers devote more time to Organizational and directional functions, for their departments function. than top-level manager. Their roles can be emphasized as; - Executing Organizational plans in Conformance with the Company's policies read - Debining and discussing information and policies from top management to lower management, and most importantly inspiring and providing guidance to low-level managers towards better perbormance. - Designing of implementing affective group and intergroup work and intermedian Systems. - Detining 4 Monitoring group-level furbonnance indicators; - Dragnosing f, resolving problems within and among work groups - Designing & implementing view and systems supporting respective behaviore. (3) Top-level managers The board of directors, president, vice-president, and CEO are all examples

The board of directors, frascident, vice-president, and CEO are all examples of top-level managers.

These managers are responsible for Controlling of Pherseeing the entire Organization. These managers are responsible for Controlling of Pherseeing the entire Organization. They develop goals, Strategic plans, Company policies, and make decessions on the they develop goals, Strategic plans, Company policies, and make decessions on the direction of the business.

In addition, top-level managers play a segnificant rule on the mobilization of Outside crosources.

Top-level managers are recountable to the shareholders and general public.

Market survey and appointments Identification (Business planning)

A business plan in a writter document giving in detail all relievant internal 4 external elements that affect business and vertiagy for starting a new worth. Durings planning A business plan must alecrabe the Company, It product and its, management team. It ashould ralso state from where money will come and how it will be spent.

In freparing a business plan air entrepreneur van take help of experts in ditterent fields like finance, legal, marketing, technical consultants etc. well be spent.

A business plan can be used by an entrepreneur for a variety of objectives. Some of the objectives are as follows; -> Getting loan from banks on getting equity funding from various investors.

-> Attracting business partners on key alliances.

-> to clarity exact nature of the business.

While writing a business plan following things should be taken care of; Detaining purpose - electeding the purpose of leuriness plan in advance doe; using the leuriness plan for lecuring loan on attracting business partners, etc. helps in Customizing of according to the need of the audience · Intermation Collection > It is important to list out are the information

that is ellerady available with your regarding business and the industry. Fenancial Analysis -> All costs of revenues restorates have to be calculated for forecast referents have to be drafted. This exercise will forally lead to be drafted. to Vensoteroty analysei, Calculation of ROI (Return on Investment), break ever analyseis of various financial viatios. It should be taken care that

Sénancial Analysis es realistic & practical.

A Courses plan Consists of the bollowing sections; < explant extragal in Components (i) Title page (ii) Executive Summay (iii) Description of Business (iv) Description of Broduct Services (v) Market tralysos (vi) Competitive analysis (vo) Operation of Management (visi) @ fonancial components i, title page -> A busines plan should be presented with a corner listing the name of the business, address, shone number, senail, website address of the date, It must look probessional of should be easy to read and well but together. (i) Executive Summary - The executive Summary of the statement of purpose Concisely describes the reason for writting the business plan it tells the reader, what is to be expected right apprent. - It ishould contain business concept forancial features, forancial requirement, Current business possition of major achievements. (iii) Description of Business - The business description usually begans with a Whorst explantatic spoons when describing the ordustry wheat is going on now as well as the Outlook of the Future. - With necessary research we can provide intermation on all the various markets wothen the industries including references to new sprieduct Ore development that could benefit on hinder the business. cis Description of product/service - While describing the product on Service we should make iseve that the reader has clear idea what the wester It is hould explain how people are going use the product one service and talk about what makes these product elifterent from the others available on the market.

(V) Market. (1) Market Analysia -> A thorough market analysis will help defining the prospects as well as help to establish process, distribute promotional Strategies that will allow the Company to Succeed regainst the Competitors both in short term and long term.

(13) Competitive Analysis -> The purpose of Competitive renalysis us to defermine the istrengths and the weaknesses of the Competitions within your market means who ever readsout business plan ishould get a Clear êdea rabout of target market and how we will stand a part From Our Competitors. Operation of Management -> It design to describe how the business Function on a continuous basis. The operation plan highlights the logistics Of the Organization, susponsibilities of the management team of the task algored assigned to each within the Company. (Vite: Financial Components -> After defining rau the components three Financial Statements which are the backbone of the business. Market Survey Merket Surveys are the ways in which Companies obtain information about the Customer, noncustomers for their business, and how their Customers & Consumers views on Companies product of Services. Types of Narket Juneys 1) One on one 2) Focus group 3> Telephonic , 4) Online survey 1) one on one on one market survey as another market survey technique used on introducing new products. 2) Focus group - In focus group type market survey en company may 3> Telephonic - There Surveys are Conducted over phone, Such as customer. 4) Online Survey - Online Surveys open appear on the companies website of the forem at notatications. Some of its customer have estopped purchasing the companies product. A suggestive Outline of a business plan: 1) Business plan Cover page Business Mame Company Logo, - Tel & fax No. and ematle id

| 2) Table of contents |
|--|
| 3) Executive Summary |
| 4) Vosion, Mission Statement |
| 5) Summary Description of Business - |
| |
| Structure (Wholesale, Miller), Martiner, Company, Cooperative) Legal form of Dionership (Sole, fartner, Company, Cooperative) |
| Sixe, (tony, Ssi, Msc, Lsc) |
| Brioduction |
| Borbormance Levels. |
| |
| 7) Detailed Obscription of product become |
| What rolled the Customer gets. What need of fullols. Type of product |
| What need of fulfols. |
| Continue of product |
| Features of product (1) |
| 8) Marketing plan- |
| - Target market and demand forcecast |
| - Industry analysis |
| - Competition analysis |
| - Morakeling Strategy - 4Ps, Service delivery |
| 9) Organisation - essential de services - essential de services (d) |
| - Location |
| - Capacities |
| - Legal Structure of the anterprise |
| - legal requirements (licenses Clearances, NOCs etc.) |
| - procurement of utility services (like water, power Communication facilities |
| - operations |
| - Accounting methods |
| - 1P prolection and Insurance (of vegewined) |
| 10) Management and Team Composition |
| |
| - Bersenal Fonancial istadement to forming a working capital |
| - Personal Fonancial istatement of working Capotal Start-up expenses - Capital expenditure 4 working Capotal |
| Start-up experies - cuping |
| - sources of facts |
| - First 12 months frostot and loss projection First 4 year projection of protect of loss, cash flow & balance wheel of break-even analysis |

- Major assumptans made
- 13) Exit strategy
- 13) Appendices

- Questionnaires

- Surveys, market research studies

- Detailed list of equipment to be purchased

- Copies of lease agreements, offers for equipments of important inputs.

- Letters of Support from potential customers

- Any other material needed to support the assumptions made in the plan.

Micro, Small, medour enterprise (investment limit MSME)

In accordance with the provision of Micro, Small & Medium Enterprises Development (MSMED) Act, 2006 the Micro, Small and Medaum Enterprises (MSME)

ore classified on two classes;

(a) Manufacturing Enterprises -> The enterprises engaged on the manufacture or production of goods pertaining to any industry specified in the forst schedule to the industries (Development and regulation) Act, 1951) or employing plant and machinery in the process of value addition to the final product having a distinct name on character on use. The manufacturing lenterprise are defined in

Herms of Investment in plant of merchinery. (b) Source Enterprises -> The enterprises engaged in providing on rendering of

Sourices and are defined in terms of investment in equipment

The limit for investment in plant of machinery / equipment for meanubacturing Nervice enterprises, au notofsed, vide S.O. 1642 (E) dtd. 29-09-2006 are as under:

| utacturing Sector |
|---|
| Investment in plant & machinery |
| Does not exceed 25 Lakh rupees |
| More than 25 larch rupees but does not |
| More than 25 lark rupees but does not exceed 5 crone rupees. None than 5 crone supees but does not exceed 10 crone rupees |
| erusce sector |
| Investment in equipments |
| Does not exceed to lash reupees |
| More than to take reupees but does not exceed 2 Crone reupees |
| More than 2 crome respect but does not |
| |

The investment in plant of machinery is the Oxiginal Cost excluding land and building land other interns especiated by the Ministry of esmall escale Ancillary industry - Ancillary industry which manufacture parts, Components, Look intermediaries for heavy inclustry or large industry. The investment on plant of machinery should not exceed 1 cr. Ting industry - Whe investment on plant & machinery ishould not exceed 25 lach irrrespective of the location of the unit.

Time schedule plan Mhe time schedule is a contractual document between the client and the contractor which debines the forecest bequence and progress of the work and the contractual istart, finish and milestone dates. The time is chedule could contain the budget cost of the project which creates the project eash blow and could contain the manpower as well which creates manpower histograms.

Types of the time-Schedule There are few types of time schedule depend on the stage of the project;

- 1. Tender Schedule
- 2. Master Time Schedule
- 3. Detailed Time schedule
- 4. Baseline Time Schedule
- 5. Updated Time Ischedule
- 6. Revised Time Schedule

The Importance of Scheduling:

Scheduling is the art of planning your activities so that you can achieve your goals and prisonities in the time you have available. When its done effectively, it helps you;

- Understand what you can vicalistically achieve with your time.

- Make isure you have enough time for essential tasks.
- Add contingency time for a the unexpected".
- Avoid taking on more than you can hardle.
- Work Steadoly toward your personal and Career goals.
- Have enough time for family and friends, exercise and hobbies.
- Achieve ra good work life balance.

| Control of Control | | | | 1 1 1-112 |
|--------------------|----|----|-----------|----------------------------|
| Agencies | to | be | Confacted | for project Implementation |

| Agencies to be confacted for p | regisest Simplementation |
|---|---|
| Approvals/clearances Required | Allowetment to be Approached and Consulted |
| Incorporation of company | Registrar of Companies |
| Regartication/IEM/Industrial License | District Industry Center for Isman Iscale Industries (SSI) Secretariat of Industrial Assostance (SIA) for large and medium industries |
| Allotment of land | State DI/State Industrial Development Comporation (SIDC) Sortrastructure Componation/Small Scale Industrial Development Componation (SSIDC) |
| permission for land use (in case industrial an andustrial an | a. State DI b. Department of Town and Country planning C. Local authority/District Collector |
| NOC and Consent under water and Air pollution Control Acts | State pollution Control Board (SPCB) |
| Approval of Construction Michaely 4 building plan | a. Town and Country Planning b. Municipal and Local authorities c. Chieft Inspector of Factories d. pollution Control Board e. Electricity Board |
| Sanction of power | State Electricity Board |
| Use f storage of explosives | Chileb Controller of Exploseres |
| Boiler Inspection Certificate | Chieb Inspector of Bootlers |
| Finance | i. State financial Componation SIDC for two Loans ii. For loans higher than 16.15 million, all Indiac financial institutions like Inclustrial Development Bank of India (IDBI), Industrial Credit and Investment Componation of India (ICICI), Industrial Financial Componation of India (ICICI) etc. |
| Registration under States sales Tax Act, and Central and State Excise Act | ii. Sales Tax Department ii. Central & State Excise Depts. |
| Extraction of Nonerals | State Director of Mines and Greology |
| 151 Certificate | Regional office of the Bureau of Indian Standards(BIS) |
| Quality Marking Certificate | Quality Maxing Center of the State Government |
| Weights and Measures | Inspector of weights and Measures |

Assessment of Demand and Supply and potential areas of Greenoth

Supply and Demand

i) In the Contest of Jupply and demand discussion demands.

is An important distinction to make the differences between demand and. quantity demanded. The quantity demanded reters to the specific remount of that product that the Consumers are rolling to purchase at the given Brice. This relationship between price and the quantity of product demanded at that frice in debined as demand itelationship.

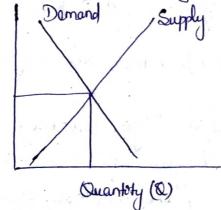
iii) Supply is debined as the total quantity of spruduct on service that the

in along the quantity supplied in remount of service that suppliers ever wolling supply in given prices. This relationship between frice and amount of frieduct or Service Supplied ils Called as Supply vielationships.

When thinking about demand and supply together the supply relationship (

demand relationships are mirror to each other at equillibrain.

vis The quantity supplied and quantity demanded are Same at equillibrariem.



Identifying Business Opportunity

To establish an industry one need an idea of then converts it into project and reality. So he has to create such situations to Catch the right Opportunity and Convert it into penterprise who constantly in Opportunity do not come by chance they are visible to those who constantly in Seatch of them. The entrepreneur has to Collect necessary resources to convert the opportunity to luccessful business.

Business opportunity can be describe as an economic ideas, which can be adjustable to new solution to make a business and eary frobets. For Searching beworks opportunity one has to Conduct various ferson and Collect lot of Intoremations. He has to meet entrepreneur of isometar line.

He need to contact fathere persons gather knowledge from them; He has to Collect information of a number of business opportunity and analyse them Debone selecting an business Opportunity One has to considered following things -> Market scope of the product. -> Demand supply gap of the market > Future demand of the product in the market -> Rate of return in investment -> Study the technical, production, managerial feasibility -> Own knowledge, capabolity and skill to handle the project. → Yo keep a watch over the possibility market of the Commodity (preoduct) or Objectives -> To decide a high level group of manager so that the venture may be started. -> To make an assessment over financial resources by making financial → Yo explore the opportunities for possable entry in other areas.

→ Yo assess the requirements of labour : Capotal and materials for the -> Mo fundout the fossibilities of whort term and long term development in Various areas of economy. -> Mo have the desire for technical knowledge, awareness towards new opportunities and acceptance for changes. -> Yo were the possibilities of directing the available viesources towards achieving the business goal. -> 40 identity those industries which are not based on local sources but which may be economically considered for future. Factors attecting Business Opportunity (i) Analysis of internal demand -> Business opportunities may be identified by assessment of internal demand of the existing and proposed products that means what will be the possibilities of future demands. - city Availability of raw materials -> It the raw materials were easily available the production cost will be low it also makes the entrepreneur ready to establish the industrial unit.

(iii) External Assertance -> Role of external assortance like Govt., Supplier mestons and specific institutions ils also important in identibication of business

froposed industrial development - from various sources, the entrepreneur may know

the establishment of which type of industries will be probitable.

(v) Internal Sources of broduction on regularly available to the entrepreneur the may take positive approach for the Letup of inclustroal unit. (vi) Rix in business Opportunities -> Every business involves vient. It goes on increasing on decreasing in such conditions the entrepreneur has to identity when and how

(vii) personmance of existing unit -> He must analyse the personmance of existing

unit (Manubacturing, packaging, distrobuting, Marketing).

(viii) promote rentrepreneuroal activity -> The entrepreneur must promote entrepreneuroal activity for development of industries.

Final Broduct Selection

Once an industry in finalised now it is time to decide the type of product broduced and quantity. While doing this he has to make a comparison of all products he has thought in the ruind. One must understand that marketing the product is more important than Broducing uit, So market survey or more important in selection of a product. One can go for vary product but he must consider following things;

- Behaviour of Competitors

- Consumers viespond and buying behaviour
- All prototable factors
- Feasibility of the products
- Market scope, rate on return.

Unit-5 Functional areas of management

a) Production management

Production & Productivity -:

Production is the transformation of inputs into goods and services. The main objectives of a production process are :

- (i) optimum use of resources at optimum cost.
- (ii) manufacture of the desired quality and quantity of goods and services.

Production may be referred to as the process concerned with the conversion inputs (raw materials, machinery, information, manpower, and other factors of production) into output (semi finished and finished goods and services) with the help of certain processes (planning, scheduling and controlling etc.)

Definition:-

A few definitions of production management are being reproduced here under to understand the meaning of the term clearly :

"Production management then becomes the process of effectively planning and regulating the operations of that part of an enterprise which is responsible for actual transformation of materials into finished products".

Production management, thus, is assigned with the following tasks -

- (i) Specifying and accumulating the input resources, i.e., management, men, information, materials, machine and capital.
- (ii) Designing and installing the assembly or conversion process to transform the inputs into output, and
- (iii) Coordinating and operating the production process so that the desired goods and services may be produced efficiently and at a minimum cost.

The operation system includes both manufacturing sector as well as service sector, but when you use the word PM, you should be careful to note that it refers to the manufacturing sector but not the service sector.

Productivity

Productivity can be defined in many ways. Some of them are as follows:

- Productivity can also be defined as human endeavour (effort) to produce more and more with less and less inputs of resources so that the products can be purchased by a large number of people at affordable price.
- ii. Productivity is nothing but the reduction in wastage of resources such as labour, machines, materials, power, space, time, capital, etc.
- iii. Productivity aims at the maximum utilization of resources for yielding as many goods and services as possible, of the kinds most wanted by consumers at lowest possible cost.
- iv. Productivity processes more efficient works involving less fatigue to workers due to improvements in the layout of plant and work, better working conditions and simplification of work. In a wider sense productivity may be taken to constitute the ratio of all available goods and services to the potential resources of the group.

Productivity is a common measure on how well resources are being used. In the broadest sense, it can be defined as the following ratio:

Productivity = output / input

Production, planning & control

Planning and control are interrelated and interdependent. Planning is meaningless unless control action is taken to ensure the success of the plan. Similarly, control is dependent on planning as the standards of performance are laid down under planning. Therefore, production planning and control should be considered an integrated function of planning to ensure the most efficient production and regulation of operations to execute the plans successfully.

Production, planning & control (PPC) defined as" the direction and coordination of the firms materials and physical facilities towards the attainmaint of pre specified production goal, in the most efficient and effective manner".

According to Samuel Elton PPC defined as "the highest efficiency in production is obtained by manufacturing the required quantity of the product of required quality at required time by the best and cheapest method".

In simple word PPC means plan your work and work your plan . it is a complete plan, procedure to employ right quantity, right person, at right place to get the job at most economic way.

PPC regulates and controls how, where, and when work is to be done.

Objectives-

Production cannot possible without material, man, and machine. The PPC system integrate and coordinate the use of all three for the efficient production.

- i. To design a system and plan to carry out production so that delivery date can be meet.
- ii. Ensure smooth flow of production.
- iii. Effective utilisation of production facilities.
- iv. Coordinate the man, machine and materials in most economic way.
- v. Coordinate the production activities of various departments.
- vi. Ensure production of right product in right quality at right time.

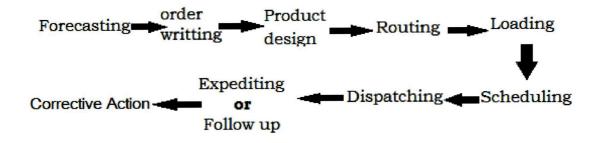
- vii. Maintain flexibility in operation to meet changes.
- viii. Establish target and check against performance.

Function of PPC:

The functions of PPC mainly grouped into 3 categories.



Steps of PPC



A standard Process of production planning and control may follow following steps discuss below.

- 1. Forecasting: defined as the estimation of future activities. This provides the basis for establishing requirements of men, materials, time and money.
- 2. Order writing: it is the authorisation given to persons to do a particular job.

3. Product design: - after preparing work authorisation the next step is to describe the work in details or preparing specification under which the job will be done. it includes blue print preparation, drawing, bill of materials etc.

4. Routing

It is the process of determining the most advantageous path to be followed in which various operations will be carried out.

It consists of the determination of operations through which the product must pass and the arrangement of operations in the sequence that will require a minimum of handling, transportation, storage and deterioration through exposure. It is the job related to plant layout, material handelling and temporary storage of materials.

A route for the movement of a manufacturing lot through the factory results from the determination of where each operation on a component part, subassembly, or assembly is to be performed.

Routing is an essential element of production control because other production control functions are dependent on routing function.

The routing procedure depends on considerations of type of work stations, characteristics of individual machines, needs of personnel etcln general, the following routing procedure is followed:

- (i) Determining What to Make and What to Buy: The product is analysed, from manufacturing point of view, to find out how many parts or components can be manufactured in the plant and how many can be purchased from outside directly. (ii) Ascertaining the Requirements of Materials: After the decision to manufacture is taken, the production department decides the exact quantity and quality of materials required for the manufacture of the components or the product. A parts list and a bill of materials is prepared showing name of each part, quantity, material specifications, amount of materials required, etc. The necessary materials, thus, can be procured.
- (iii) **Preparation of Route Sheet:** Route sheets are prepared in advance .The chief prepare a route sheet in tabular form on which the path that a particular item is to follow through production.

A route sheet is to be prepared for every production order showing the individual parts to be completed for each finished individual parts to be completed for each finished product before any group can be assembled.

While preparing a route sheet, it is essential to bear in mind that the route selected is the shortest and the most economical of all possible alternative routes.

- (iv) **Determining Lot Sizes**: When the work orders are received from the customers, it is necessary to determine the lot sizes so as to keep the route free and ready for smooth operations.
- (v) Determining Scrap Factors: A scrap factor is the anticipated normal scrap encountered in the course of manufacturing process. The routing department should determine the amount of possible scrap and rejection in each order or lot. (vi) Estimation of the cost of the Product: The cost of the component or product is analysed and estimated through the information obtained in steps (i) to (v) above. The cost consists of material, wages, and other specific and indirect expenses.
- (vii) Preparation of Production Control Forms: To collect detailed information relating to production control, the production department prepares the various forms such as job cards, inspection cards, move tickets, tool tickets, etc.

5. Loading

Once the route has been established, the work can be loaded against the selected machine. Loading deals with the amount of work assigned to a machine or a worker.

It deals with the record of work-load of different shops. The total time required to perform the operations is computed by multiplying the unit operation time given on the standard process sheet by the number of parts to be processed. The total time is then added to the work already planned for the work station. The process results in a tabulated list or chart showing the planned utilisation of machines or work stations in the plant. From the chart, it is easy to assess the spare capacity of the plant.

If the loading charts indicate sufficient spare capacity, efforts may be directed through the sales department to obtained more orders for the utilisation of spare capacity. Under load of certain departments may also arise from ineffective planning. In such a case, the remedy lies in proper planning. But if, on the other hand, there is an overload in any workshop, action on anyone or more of the following lines may be taken to relieve the bottleneck

- (a) by arranging for overtime work;
- (b) by introducing an additional shift;
- (c) by transferring operations to another shop; and
- (d) by sub-contracting of the excess load.

6. Scheduling

Scheduling involves fixing priorities for different jobs and operations and providing time for their performance. A schedule is a time-table of operations specifying the time and date when each job/operation is to be started and completed. Scheduling is, thus, the determination of the time that should be required to perform each operation and also the time necessary to perform the entire series,

The objective of scheduling is to ensure that every job is started at the right time and it is completed before the delivery date.

Scheduling and routing are inter-dependent and the two should, therefore, be integrated properly. To be effective, scheduling should be flexible and due provision should be made for contingencies like delay in the availability of materials, breakdown of machines, absence of key personnel, etc.

7. Dispatching (release of work order)

Dispatching may be defined as "the setting of productive activities in motion through release of orders and instructions, in accordance with previously planed timings as embodied on operation sheet, route card and loading schedules".

Dispatch provides official authorization for

- (i) Movement of materials to different work stations,
- (ii) movement of tools and fixtures necessary for each operation,
- (iii) beginning of work on each operation,
- (iv) recording of beginning and completion time,
- (v) movement of work in accordance with a routing schedule,
- (vi) control of progress of all operations and making of necessary adjustments in the release of operations.

Dispatching requires co-ordination among all the departments concerned.

8. Expediting or Follow Up

Follow up or expediting is that branch of production control procedure which regulates the progress of materials and parts through the production process.

It involves determination of the progress of work, removing bottlenecks in the flow of work and ensuring that the productive operations are taking place in accordance with the plans.

It spots delays or deviations from the production plans. It helps to reveal defects in routing and scheduling, misunderstanding of orders and instructions under loading or overloading of work etc. All problems and deviations are investigated and remedial measures are undertaken to ensure the completion of work by the planned date.

9. Corrective Action

Corrective action is needed to make effective the system of production planning and control. By resorting to corrective measures, the production manager maintains full control over the production activities.

For instance, routing may be defective and the schedules may be unrealistic and rigid. The production manager should try to rectify the routes and lay down realistic and flexible schedules. Many a time, production schedules are not met in time or if they are met, the goods are of substandard quality. If the causes of these are due to the poor

performance of the employees, certain personnel decisions like demotion, transfer and training may be essential.

Objectives of Production Planning and Control

The main objective of production planning and control is to ensure the coordinated flow of work so that the required number of products are manufactured in the required quantity and of required quality at the required time at optimum efficiency. In other words, production planning and control aims at the following purposes:

- (i) Continuous Flow of Production: It tries to achieve a smooth and continuous production by eliminating successfully all sorts of bottlenecks in the process of production through well-planned routing and scheduling requirements relating to production work.
- (ii) Planned Requirements of Resources: It seeks to ensure the availability of all the inputs i.e. materials, machines, tools, equipment and manpower in the required quantity, of the required quality and at the required time so that desired targets of production may be achieved.
- (iii) Co-ordinated work Schedules: The production activities planned and carried out in a manufacturing organizations as per the master schedule. The production planning and control tries to ensure that the schedules to be issued to the various departments/ units/supervisors are in coordination with the master schedule.
- (iv) Optimum Inventory: It aims at minimum investment in inventories consistent with continuous flow of production.
- (v) Increased Productivity: It aims at increased productivity by increasing efficiency and by being economical. This is achieved by optimising the use of productive resources and eliminating wastage and spoilage.
- (vi) Customer Satisfaction: It also aims at satisfying customers requirements by producing the items as per the specifications or desires of the customers. It seeks to ensure delivery of products on time by co-ordinating the production operations with customers' orders.

- (vii) Production and Employment Stabilization: Production planning and control aims at ensuring production and employment levels that are relatively stable and consistent with the quantity of sales.
- (viii) Evaluation of Performance: The process of production planning and control is expected to keep a constant check on operations by judging the performance of various individuals and workshops and taking suitable corrective measures if there is any deviation between planned and actual operations.

Importance of Production Planning and Control

The system of production planning and control serves as the nervous system of a plant. It is a co-ordinating agency to co-ordinate the activities of engineering, purchasing, production, selling and stock control departments. An efficient system of production planning and control helps in providing better and more economic goods to customers at lower investment. It is essential in all plants irrespective of their nature and size. The principal advantages of production planning and control are summarized below:

(i) Better Service to Customers: Production planning and control, through proper scheduling and expediting of work, helps in providing better services to customers in terms of better quality of goods at reasonable prices as per promised delivery dates. Delivery in time and proper quality, both help in winning the confidence of customers,

improving relations with customers and promoting profitable repeat orders.

- (ii) Fewer Rush Orders: In an organisation, where there is effective system of production planning and control, production operations move smoothly as per original planning and matching with the promised delivery dates. Consequently, there will be fewer rush orders in the plant and less overtime than, in the same industry, without adequate production planning and control.
- (iii) Better Control of Inventory: A sound system of production planning and control helps in maintaining inventory at proper levels and, thereby, minimising investment in inventory. It requires lower inventory of workin- progress and less finished stock to give efficient service to customers. It also helps in exercising better control over raw-material inventory, which contributes to more effective purchasing.

- (iv) More Effective Use of Equipment: An efficient system of production planning and control makes for the most effective use of equipment. It provides information to the management on regular basis pertaining to the present position of all orders in process, equipment and personnel requirements for next few weeks. The workers can be communicated well in advance if any retrenchment, lay-offs, transfer, etc. is likely to come about. Also, unnecessary purchases of equipment and materials can be avoided. Thus, it is possible to ensure proper utilization of equipment and other resources.
- (v) Reduced Idle Time: Production planning and control helps in reducing idle time i.e. loss of time by workers waiting for materials and other facilities; because it ensures that materials and other facilities are available to the workers in time as per the production schedule. Consequently, less man-hours are lost, which has a positive impact on the cost of production.
- (vi) Improved Plant Morale: An effective system of production planning and control co-ordinates the activities of all the departments involved in the production activity. It ensures even flow of work and avoids rush orders. It avoids 'speeding up' of workers and maintains healthy working conditions in the plant. Thus, there is improved plant morale as a byproduct.
- (vii) Good Public Image: A proper system of production planning and control is helpful in keeping systematised operations in an organisation. Such an organisation is in a position to meet its orders in time to the satisfaction of its customers. Customers satisfaction leads to increased sales, increased profits, industrial harmony and, ultimately, good public image of the enterprise.
- (viii) Lower Capital Requirements: Under a sound system of production planning and control, everything relating to production is planned well in advance of operations. Where, when and what is required in the form of input is known before the actual production process starts. Inputs are made available as per schedule which ensures even flow of production without any bottlenecks. Facilities are used more effectively and

inventory levels are kept as per schedule neither more nor less. Thus, production planning and control helps, in minimising capital investment in equipment and inventories.

Limitations of Production Planning and Control

Undoubtedly, the system of production planning and control is a must for efficient production management; but in, practice, sometimes, it fails to achieve the expected results because of the following limitations:

- (i) Lack of Sound Basis: Production planning and control is based on certain assumptions or forecasts about availability of inputs like materials, power, equipment etc. and customers orders. In case these assumptions and forecasts do not go right, the system of production planning and control will become ineffective.
- (ii) Rigidity in Plant's Working: Production planning and control may be responsible for creating rigidity in the working of the plant. Once the production planning has been completed, any subsequent change may be resisted by the employees.
- (iii) **Time consuming Process:** Production planning is a time consuming process. Therefore, under emergencies it may not be possible to go through the process of production planning.
- (iv) Costly Device: Production planning and control is not only a time consuming process but is a costly process also. Its effective implementation requires services of specialists for performing functions of routing, scheduling, loading, despatching and expediting. Small firms cannot afford to employ specialists for the efficient performance of these functions.
- (v) External Limitations: The effectiveness of production planning and control is sometimes limited because of external factors which are beyond the control of production manager, Sudden break-out of war, government control, natural calamities, change in fashion, change in technology, etc. are factors which have a negative impact on the implementation of production planning and control.

Requirements Of Efficient Production Planning And Control:-

A system of production planning and control is said to be efficient when it does its job well and successfully without wasting time or energy. To be efficient it must have the following prerequisites or conditions or requirements:

(i) Sound Organisational Structure: An effective system of production planning and control requires a sound organisational structure. The management as a team should recognise the need for production planning and control and must be willing to delegate authority and create responsibility at all levels. In case the work schedules are centrally

determined, the supervisors must recognise that this is merely an extension of functional specialisation to make it possible for them to devote more of their time to those activities for which they are best qualified. This attitude produces cooperative effort.

- (ii) Reliable and Detailed Information: For successful production planning and control, reliable, detailed and up-to-date information must be available to all concerned regarding the following:
- (a) products required to be produced;
- (b) the number and types of each production machine and processing unit, together with the fees, speeds, and productive capacities.
- (c) the manufacturing time required and the sequence of operations of each part going into the finished product;
- (d) requirements and availability of material labour;
- (e) requirements and availability of the proper tools, jigs, and fixtures for each part of the product to be manufactured;
- (f) work-in-progress, etc.
- (iii) **Trained Personnel**: A competent system of production planning and control presupposes the existence of trained personnel in the use of special tools, jigs and fixtures, etc. The personnel must have the required aptitude for the work to be completed arid understand the various aspects of production planning and control. They must have built-in motivation for achieving goals of the firm.
- (iv) **Standardisation**: The term 'standardisation' refers to the process of making things that conform to a fixed size, colour, quality, etc. for achieving an effective

system of production planning and control, standardisation is required for the following:

- (a) materials purchased and fabricated;
- (b) operations on all parts as far as design permits;
- (c) tools and equipment as far as practical;
- (d) procedures of operations and organisational set up including delegation of authority and fixed responsibility;
- (e) production standards for employees and method of remuneration for employees;
- (f) quality requirements and adequate inspection to guarantee quality maintenance;
- (g) reports on production performance in comparison with scheduled production, etc.
- (v) Flexibility: Something or someone that is flexible is able to change easily and adopt to different conditions and circumstances as they occur. To be successful, the system of production planning and control should have built-in flexibility so that it may adapt to changes like power failure, break down of machinery, shortage of raw materials, absence of key personnel, etc.
- (vi) Periodic Appraisal: An appraisal of a situation is a careful judgement about what is happening and why is happening. Since production planning and control is a continuous process, a periodic appraisal of its various aspects is required so that superfluous ones may be identified and removed. The process of continuous checking is quite helpful in keeping the system efficient and in line with the requirements of the particular organisation and its customers.

Financial managment

1. Meaning & Importance :-

Financial management may be defined as, "Financial management is the integral part of general management engaged in raising of finance, allocation and utilization of finances or funds and other managerial function for the overall growth of the enterprise."

objectives of financial management:-

- Procurement of Funds- Financial management concerned with the collection of funds from different sources. The collection of fund includes- identification of sources of funds, raising of funds, consideration of cost of capital.
- Effective Use Of Funds- Financial management concerned with the effective use of funds collected from various sources. Effective utilization of funds ensures safety, liquidity and profitability of funds collected from different sources.
- Flexibility- Financial management is flexible in articulating the changes in the economic activities within the enterprise and outside the enterprise.
- Managerial Decision Making- Financial management takes different types of decision in respect of financial activities of a firm. It takes the following decision-INVESTMENT, FINANCINING, and DIVIDEND.
- Financial Planning- Financial management frames financial planning which includes-determination of capital requirement, methods of raising funds, etc.
- Financial Analysis Financial management makes financial analysis of the performance of any enterprise to access the effectiveness of the financial activities.
- Financial Control Financial management implements control over the financial
 activities of the business enterprise. Financial control ensures effective use of
 funds in a planned way.
- **Credit Management** Financial management arranges for credit management. Credit management ensures the flow of cash in the business enterprise.

Functions of Financial Management

Financial management performs different function for the effective management of funds of any organization. Financial management is concerned with the supervision of the capital invested in the business enterprise, allocation of finance to resources and overall increase in the value of business.

Jim Mc Menamin proposes the following interrelated activities of financial management-Financial analysis, financial decision making, financial planning, and financial control. The function of financial management include the following-

- Resource mobilization from the economy
- Resource development
- Resource generation and distribution for growth and risk comparison

Now we will discuss the finance related functions of financial management. Basically these decisions are divided under three broad categories. These are financial decision, investment decision and dividend decisions. We will discuss them one by one.

- Financial Decision Financing decision of an enterprise includes decision for short term capital and long term capital requirement. Financing decision include decision upon the needs and source of new outside financing and caring on negotiations for new outside financing. Financing means procurement of finance at most convenient and economic rates.
- Investment Decisions- Funds acquired from different sources are to be invested in profitable projects so that maximum profit can be earned and the value of the wealth becomes maximum. Long term funds are invested for the acquisition of fixed assets and current assets also. The investment of funds in different projects should be made carefully so that the funds can be utilized in the maximum possible ways. Capital budgeting techniques is used or making investment decisions. Investment decision considers the management of current assets such as cash, marketable securities, etc. Capital budgeting which includes identification, selection, implementation of capital projects, etc. and management of mergers, reorganization, disinvestment, etc.

• Dividend Decisions- The financial managers takes dividend decisions. For taking decision in respect of dividend, the factor to be consider include- availability of cash, tax position of the shareholders, trend of earnings, requirements of funds for the future, etc. Dividend decision considers the allocation of net profit. Dividend decision gives emphasis on the checking on financial performance. The financial manager takes initiatives to take proper dividend decisions as to the amount of dividend to be paid and the time of payment of dividend. He tries to set balance between dividend retention and distribution. Dividend decisions are taken considering the overall liquidity and profitability of the enterprise. Dividend decisions are taken taking into account the disposition of profits between dividend and retained earnings.

Capital -

Fixed capital -Fixed capital means that capital, which is used for long-term investment of the business concern. For example, purchase of permanent assets. Normally it consists of non-recurring in nature.

Working Capital - Working Capital is another part of the capital which is needed for meeting day to day requirement of the business concern. For example, payment to creditors, salary paid to workers, purchase of raw materials etc., normally it consists of recurring in nature. It can be easily converted into cash. Hence, it is also known as short-term capital.

Definition And Classification Of Working Capital:

Working capital refers to the circulating capital required to meet the day to day operations

of a business firm. Working capital may be defined by various authors as follows:

1. According to Weston & Brigham - "Working capital refers to a firm's investment in short

term assets, such as cash amounts receivables, inventories etc.

Concept Of Working Capital

Working capital can be classified or understood with the help of the following two important concepts.

Gross Working Capital

Gross Working Capital is the general concept which determines the working capital concept.

Thus, the gross working capital is the capital invested in total current assets of the business

concern. Gross Working Capital is simply called as the total current assets of the concern.

GWC = CA

Net Working Capital

Net Working Capital is the specific concept, which, considers both current assets and current liability of the concern. Net Working Capital is the excess of current assets over the current liability of the concern during a particular period.

If the current assets exceed the current liabilities it is said to be positive working capital; it is reverse, it is said to be Negative working capital.

$$NWC = CA - CL$$

Component of Working Capital:-

Working capital constitutes various current assets and current liabilities. This can be illustrated by the following chart.

| Current asset | Current liability |
|----------------------------------|-------------------------------|
| Cash in Hand | Bills Payable |
| Current Assets Current Liability | Sundry Creditors |
| Cash at Bank | Outstanding Expenses |
| Bills Receivable | Short-term Loans and Advances |
| Sundry Debtors | Dividend Payable |
| Shotr-term Loans Advances | Bank Overdraft |
| Inventories | Provision for Taxation |
| Prepaid Expenses | |
| Accrued Income | |
| | |

TYPES OF WORKING CAPITAL

Working Capital may be classified into three important types on the basis of time.

Working Capital

- 1. Permanent Working Capital
- 2. Temporary Working Capital
- 3. Semi Variable Working Capital

1. Permanent Working Capital

It is also known as Fixed Working Capital. It is the capital; the business concern must maintain certain amount of capital at minimum level at all times. The level of Permanent Capital depends upon the nature of the business. Permanent or Fixed Working Capital will

not change irrespective of time or volume of sales.

2. Temporary Working Capital

It is also known as variable working capital. It is the amount of capital which is required to

meet the Seasonal demands and some special purposes. It can be further classified into Seasonal working capital and Special working capital.

The capital required to meet the seasonal needs of the business concern is called as Seasonal working capital. The capital required to meet the special requirements such as launching of extensive marketing campaigns for conducting research, etc.

3. Semi Variable Working Capital

Certain amount of Working Capital is in the field level up to a certain stage and after that it

will increase depending upon the change of sales or time.

NEEDS OF WORKING CAPITAL

Working Capital is an essential part of the business concern. Every business concern must maintain certain amount of Working Capital for their day-to-day requirements and meet

the short-term obligations. Working Capital is needed for the following purposes.

1. Purchase of raw materials and spares: The basic part of manufacturing process is, raw materials. It should purchase frequently according to the needs of the business concern. Hence, every business concern maintains certain amount as Working Capital to purchase raw materials, components, spares, etc.

- **2. Payment of wages and salary:** The next part of Working Capital is payment of wages and salaries to labour and employees. Periodical payment facilities make employees perfect in their work. So a business concern maintains adequate the amount of working capital to make the payment of wages and salaries.
- **3. Day-to-day expenses:** A business concern has to meet various expenditures regarding the operations at daily basis like fuel, power, office expenses, etc.
- **4. Provide credit obligations:** A business concern responsible to provide credit facilities to the customer and meet the short-term obligation. So the concern must provide adequate Working Capital.

Working Capital Cycle

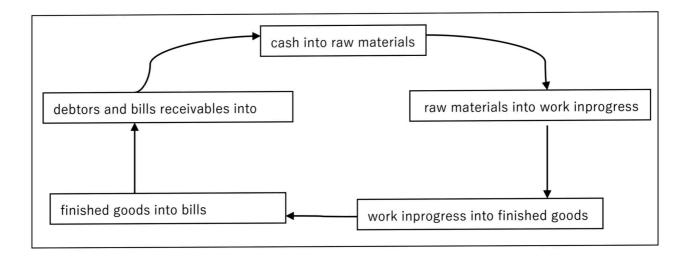
Working Capital Cycle is also known as Operating cycle. Operating cycle is the total time gap between the purchase of raw material and the receipt from Debtors.

Working Capital Cycle measures the time duration between paying for goods supplied to you (procurement of raw materials) and final receipt of cash to you from the sale of finished product.

Working capital is needed till a firm gets cash on sale of finished products. The Working Capital Cycle (or operating cycle) is the length of time between a company's paying for material entering into stock and receiving the inflow of cash from sales. The movements in the cycle are different for different types of companies and are dependent on the nature of the company.

The duration of time required to complete the following sequence of events, in case of manufacturing firm, is called the operating cycle:

- 1. Conversion of cash into raw materials.
- 2. Conversion of raw materials into work-in- progress.
- 3. Conversion of work in process into finished goods.
- 4. Conversion of finished goods into debtors and bills receivables through sales.
- 5. Conversion of debtors and bills receivables into cash.



The length of cycle will depend on the nature of business. Non manufacturing concerns, service concerns and financial concerns will not have raw material and work-in-process so their cycle will be shorter. Financial Concerns have a shortest operating cycle.

Operating cycle consists of the following important stages:

- 1. Raw Material and Storage Stage, (R)
- 2. Work in Process Stage, (W)
- 3. Finished Goods Stage, (F)
- 4. Debtors Collection Stage, (D)
- 5. Creditors Payment Period Stage. (C)

$$O = R + W + F + D-C$$

Each component of the operating cycle can be calculated by the following formula:

Exercise 1

From the following information extracted from the books of a manufacturing company, compute the operating cycle in days and the amount of working capital required:

| Period Covered | 365 days |
|---|-----------|
| Average period of credit allowed by suppliers | 16 days |
| Average Total of Debtors Outstanding | 480 00 |
| Raw Material Consumption | 4,400 00 |
| Total Production Cost | 10,000 00 |
| Total Cost of Sales | 10,500 00 |
| Sales for the year | 16,000 00 |
| Value of Average Stock maintained: | |
| Raw Material | 320 00 |
| Work-in-progress | 350 00 |
| Finished Goods | 260 00 |
| Solution | |

Computation of Operating Cycle

- (i) Raw material held in stock:
 - = Average stocks of raw materials held / Average consumption per day
 - = 320 / (4400 / 365) = (320 X 365) / 4400 = 275 days

Less: Average credit period granted by Suppliers =16 days / 11 days

(ii) Work-in-progress:

$$= 350 \; / \; (10,\!000 \; / \; 365) = (365 \; \times \; 320) \; / \; 10,\!000 = 13 \; \text{days}$$

(iii) Finished good held in stock:

$$= 260 / (10,500 / 365) = (260 \times 365) / 10,500 = 9$$
 days

(iv) Credit period allowed to debtors:

$$= 480 / (16,000 \times 365) = (365 \times 480) / 16,000 = 11$$
days

Total operating cycle period: (i) + (ii) + (iii) + (iv) = 44 days

Number of Operating cycles in a year = 365 / 44 = 8.30

Amount of Working Capital required

- = Total operating cost / Number of operating cycles in a year
- = 10,500 / 8.3 = Rs. 1,265

Alternatively, the amount of working capital could have also been calculated by estimating the components of working capital method, as shown below:

| Value of Average Stock Maintained | 320 |
|--|------|
| Raw Material | 350 |
| Work-in-progress | 260 |
| Finished Goods | 480 |
| Average Debtors Outstanding | 1410 |
| Less: Average Creditors Outstanding | -145 |
| | 1265 |

1. Account

In actual practice, the individual transactions of similar nature are recorded, added and subtracted at one place. Such place is customarily the meaning of debit and credit, it is essential to understand the meaning and form of an account.

An account is a record of all business transactions relating to a particular person or asset or liability or expense or income. In accounting, we keep a separate record of each individual, asset, liability, expense or income. The place where such a record is maintained is termed as an 'Account'.

Type of accounts -:

Therefore, accounts can also be classified into Personal, Real and Nominal. The classification may be illustrated as follows

- **I. Personal Accounts:** The accounts which is dealing with persons. Who may be debtor or creditor. Personal accounts include the following.
 - a) **Natural Persons**: Accounts which relate to human being. For example, Mohan's A/c, Shyam's A/c etc.

- **b) Artificial persons**: Accounts which relate to a group of persons or firms or institutions. For example, HMT Ltd., Indian Overseas Bank, Life Insurance Corporation of India, Cosmopolitan club etc.
- c) Representative Persons: Accounts which represent a particular person or group of persons. For example, outstanding salary account, prepaid insurance account, etc.
- **II. Impersonal Accounts:** All those accounts which are not personal accounts. This is further divided into two types viz. Real and Nominal accounts.
 - a) **Real Accounts:** Accounts relating to properties and commodities, which are owned by the business concern. Real accounts include tangible and intangible accounts. For example, Land, Building, Goodwill, Purchases, etc.
 - b) **Nominal Accounts:** These accounts are those that record incomes and expenses and gains and losses of a business concern. For example, Salary Account, Dividend Account, etc.

Accounting- it is the act of recording ,classifying ,summarizing and reporting business transaction & interpreting their effect on the affairs of a business entity.

some terminology of accounting-

Assets- properties that are owned and have some monetary values.

Current asset- assets which can be easily converted into cash within a short period (e.g cash in bank, cash in hand, inventories)

Fixed assets- assets which have relatively permanent existence and cann't be easily converted into cash within a short period (e.g land, building, furniture)

Liabilities - the claim on the business until they are paid is known as liabilities

Current liabilities- the claim (debt) which is to repaid with in short period.(year or less)

e.g- wages, short term loan etc

fixed liabilities- these are the obligations that are payable in more than a year which are not to be liquidate from the assets.

e.g- long term loan, bond payable, owner capital)

capital- the money invested in the business in order to yield an income is capital **creditor-** is a person who supply finance to other i.e he has get money from others

debtor- he has taken money from creditor so he has to repay it.

Golden Rules of Accounting (Rules for Debiting and Crediting)

All the business transactions are recorded on the basis of the following rules.

| S.No. | Name of Account | Debit Aspect | Credit Aspect |
|-------|-----------------|-------------------------|------------------------|
| | | | |
| 1 | Personal | The receiver | The giver |
| 2 | Real | What comes in | What goes out |
| 3 | Nominal | All expenses and losses | All incomes and gains. |

Illustration: 1

Classify the following items into Personal, Real and Nominal Accounts?

- 1. Capital 2. Sales 3. Drawings 4. Outstanding salary 5. Cash 6. Rent
- 7. Interest paid 8. Indian Bank 9. Discount received 10. Building 11. Bank
- 12. Chandrasekar 13. Murugan Lending Library 14. Advertisement 15. Purchases

Solution:

Personal account 2. Real account 3. Personal account 4. Personal (Representative) account 5. Real account 6. Nominal account 7. Nominal account 8. Personal (Legal Body) account 9. Nominal account 10. Real account 11. Personal account 12. Personal account 13. Personal account 14. Nominal account 15. Real account

2. Book-Keeping

Book-keeping is that branch of knowledge which tells us how to keep a record of business transactions. The activities of book-keeping include recording in the journal, posting to the ledger and balancing of accounts.

"Book-keeping is the art of correctly recording in the books of account (all those business transactions) systematically.

Objectives:-

The objectives of book-keeping are

• To have permanent record of all the business transactions.

- To keep records of income and expenses in such a way that the net profit or net loss may be calculated.
- To keep records of assets and liabilities in such a way that the financial position of the business may be ascertained.
- To keep control on expenses with a view to minimize the same in order to maximize profit.
- To know the names of the customers and the amount due from them.
- To know the names of suppliers and the amount due to them.
- To have important information for legal and tax purposes.
- **Control over Borrowings:** Many businessmen borrow from banks and other sources. These loans are repayable. Just as he must have a control over assets, he should have control over liabilities.
- **Identifying Do's and Don'ts**: Book keeping enables the proprietor to make an intelligent and periodic analysis of various aspects of the business such as purchases, sales, expenditures and incomes. From such analysis, it will be possible to focus his attention on what should be done and what should not be done to enhance his profit earning capacity.
- **Fixing the Selling Price**: In fixing the selling price, the businessmen have to consider many aspects of accounting information such as cost of production, cost of purchases and other expenses. Accounting information is essential in determining selling prices.
- **Taxation:** Businessmen pay sales tax, income tax, etc. The tax authorities require them to submit their accounts. For this purpose, they have to maintain a record of all their business transactions.
- Management Decision-making: Planning, reviewing, revising, controlling and decision-making functions of the management are well aided by book-keeping records and reports.
- **Legal Requirements:** Claims against and for the firm in relation to outsiders can be confirmed and established by producing the records as evidence in the court.

Double Entry System Of Book Keeping

Double entry system was introduced to the business world by an Italian merchant named Lucas Pacioli in 1494 A.D.

Double Entry System

There are numerous transactions in a business concern.

Each transaction, when closely analysed, reveals two aspects. One aspect will be "receiving aspect" or "incoming aspect" or "expenses/loss aspect". This is termed as the "Debit aspect".

The other aspect will be "giving aspect" or "outgoing aspect" or "income/gain aspect".

This is termed as the "Credit aspect".

The double entry system is so named since it records both the aspects of a transaction.

In short, the basic principle of this system is, for every debit, there must be a corresponding credit of equal amount and for every credit, there must be a corresponding debit of equal amount.

Features

- Every business transaction affects two accounts.
- Each transaction has two aspects, i.e., debit and credit.
- It is based upon accounting assumptions concepts and principles.
- Helps in preparing trial balance which is a test of arithmetical accuracy in accounting.
- Preparation of final accounts with the help of trial balance.

Advantages

The advantages of this system are as follows:

- **Scientific system:** This is the only scientific system of recording business transactions. It helps to attain the objectives of accounting.
- **Complete record of transactions:** This system maintains a complete record of all business transactions.
- A check on the accuracy of accounts: By the use of this system the accuracy of the accounting work can be established by the preparation of trial balance.
- Ascertainment of profit or loss: The profit earned or loss occurred during a
 period can be ascertained by the preparation of profit and loss account.
- **Knowledge of the financial position :** The financial position of the concern can be ascertained at the end of each period through the preparation of balance sheet.

- **Full details for control:** This system permits accounts to be kept in a very detailed form, and thereby provides sufficient informations for the purpose of control.
- **Comparative study:** The results of one year may be compared with those of previous years and the reasons for change may be ascertained.

Distinction between Book-keeping and Accounting

| SI.No. | Basis of | Book-keeping | Accounting |
|--------|-------------------|--|---|
| | Distinction | | |
| 1 | Scope | Recording and maintenance of books of accounts. | It is not only recording and maintenance of books of accounts but also includes analysis, interpreting and Communicating the information. |
| 2 | stage | Primary stage | Secondary stage |
| 3 | objective | To maintain systematic | To ascertain the net result of the business |
| | | record of the transaction. | operation. |
| 4 | Nature | Often routine and clerical in nature. | Analytical and executive in nature. |
| 5 | responsibility | A book-keeper is responsible for recording business transactions. | An accountant also responsible for the work of a book-keeper. |
| 6 | Supervision | The book-keeper does not supervise and check the work of an accountant | An accountant supervises and checks the work of the book-keeper. |
| 7 | Staff involved | Work is done by the junior staff of the organisation. | Senior staff performs the accounting work. |

3. (i) Journal

In the accounting process, the first step is the recording of transactions in the books of accounts.. *Journal* is one of the **books of original entry** in which transactions are originally recorded in a chronological (day-to-day) order according to the principles of Double Entry System.

Journal is a date-wise record of all the transactions with details of the accounts debited and credited and the amount of each transaction.

Format

Journal

| | | | Debit | Credit |
|------|-------------|------|--------|--------|
| Date | Particulars | L.F. | Amount | Amount |
| | | | Rs. | Rs. |
| | | | | |
| | | | | |

- **Helps in decision making:** The management may be able to obtain sufficient information for its work, especially for making decisions. Weaknesses can be detected and remedial measures may be applied.
- **Detection of fraud:** The systematic and scientific recording of business transactions on the basis of this system minimizes the chances of fraud.

e.g-

- 1. goods sold for rs 600
- 2. mohan paid -425 discount paid to mohan -15
- 3. goods purchase from dutts-800

Journal entry is

| | | | Debit | Credit |
|----------|----------------------|------|--------------|------------|
| Date | Particulars | L.F | . Amount Rs. | Amount Rs. |
| 1/1/2020 | Cash account | Or 1 | 600 | |
| | To sale account | | | 600 |
| 2/1/2020 | Mohan [|)r | 425 | |
| | To cash account | 2 | | 410 |
| | To discount account | | | 15 |
| 3/1/2020 | Purchase account | Or 3 | 800 | |
| | To Dutt | | | 800 |
| | (goods purchase fro | m | | |
| | Dutt) | | | |

(ii) Ledger

In the Journal, each transaction is dealt with separately. Therefore, it is not possible

to know at a glance, the net result of many transactions. So, in order to ascertain the net effect of all the transactions relating to a particular account are collected at one place in the Ledger.

All transactions from the journal are classified ,sort-out and entered in a book called ledger. The process of entry is called posting.

The ledger that is normally used in a majority of business concern is a bound note book. This can be preserved for a long time. Its pages are consequently numbered.

Each account in the ledger is opened preferably on a separate page. If one page is completed, the account will be continued in the next or some other page.

Ledger is the reference book of accounting.

Ledger split into two parts debit (Dr)on left side and credit (Cr) on right side e.g-

cash a/c

| Dr. | | | | | | | Cr. |
|----------|-------------|-----|--------|----------|-------------|-----|--------|
| date | particulars | f.o | amount | date | particulars | f.o | amount |
| 1/1/2020 | To sale a/c | 1 | 600 | 2/1/2020 | By mohan | 1 | 410 |

Sale a/c

| Dr. | | | | | | | Cr. |
|------|-------------|-----|--------|----------|-------------|-----|--------|
| date | particulars | f.o | amount | date | particulars | f.o | amount |
| | | | | 1/1/2020 | By cash a/c | 1 | 600 |

Discount a/c

| Dr. | | | | | | | Cr. |
|------|-------------|-----|--------|----------|--------------|-----|--------|
| date | particulars | f.o | amount | date | particulars | f.o | amount |
| | | | | 2/1/2020 | By mohan a/c | 1 | 15 |
| | | | | | | | |

Utility of ledger

Ledger is a principal or main book which contains all the accounts in which the transactions recorded in the books of original entry are transferred. Ledger is also called the 'Book of Final Entry' or 'Book of Secondary Entry', because the transactions are finally incorporated in the Ledger. The following are the advantages of ledger.

i. Complete information at a glance:

All the transactions pertaining to an account are collected at one place in the ledger. By looking at the balance of that account, one can understand the collective effect of all such transactions at a glance.

ii. Arithmetical Accuracy

With the help of ledger balances, Trial balance can be prepared to know the arithmetical accuracy of accounts.

iii. Result of Business Operations

It facilitates the preparation of final accounts for ascertaining the operating result and the financial position of the business concern.

iv. Accounting information

The data supplied by various ledger accounts are summarised, analysed and interpreted for obtaining various accounting information

3. (iii) Trial Balance

The next step in the accounting process is to prepare a statement to check the arithmetical accuracy of the transactions recorded so for. This statement is called '**Trial Balance**'.

Trial balance is a statement which shows debit balances and credit balances of all accounts in the ledger. Since, every debit should have a corresponding credit as per the rules of double entry system, the total of the debit balances and credit balances should tally (agree). In case, there is a difference, one has to check the correctness of the balances

brought forward from the respective accounts. Trial balance can be prepared in any date

provided accounts are balanced.

Objectives

The objectives of preparing a trial balance are:

- i. To check the arithmetical accuracy of the ledger accounts.
- ii. To locate the errors.
- iii. To facilitate the preparation of final accounts.

| S.N | Particulars | Dr. | Cr. |
|-----|-----------------------|--------|---------|
| | | Amount | Amounts |
| 1. | Cash a/c | 600 | 410 |
| 2. | Sale a/c | | 600 |
| 3. | Purchase a/c | 800 | |
| 4. | Discount a/c | | 15 |
| 5. | Mohan a/c | 425 | |
| 6. | Dutt a/c | | 800 |
| | Balance on 03/01/2020 | 1825 | 1825 |

1. CASH BOOK

In every business house there are cash transactions as well as credit transactions. All credit transactions will become cash transactions when payments are made to creditors or cash received from debtors. Since, cash transactions will be numerous, it is better to keep a separate book to record only the cash transactions.

Features

A cash book is a special journal which is used to record all cash receipts and cash payments. The cash book is a book of original entry or prime entry since transactions are recorded for the first time from the source documents. The cash book is a ledger in the sense that it is designed in the form of a cash account and records cash receipts on the debit side and cash payments on the credit side. Thus, the cash book is both a journal

and a ledger. Cash Book will always show debit

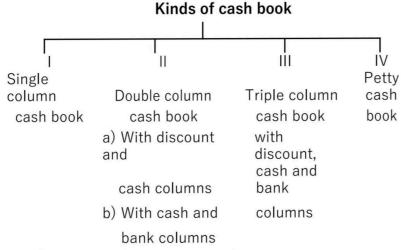
balance, as cash payments can never exceed cash available. In short, cash book is a special journal which is used for recording all cash receipts and cash payments.

Advantages

- 1. Saves time and labour: When cash transactions are recorded in the journal a lot of time and labour will be involved. To avoid this all cash transactions are straight away recorded in the cash book which is in the form of a ledger.
- 2. To know cash and bank balance: It helps the proprietor to know the cash and bank balance at any point of time.
- 3. Mistakes and frauds can be prevented: Regular balancing of cash book reveals the balance of cash in hand. In case the cash book is maintained by business concern, it can avoid frauds. Discrepancies if any, can be identified and rectified.
- **4. Effective cash management:** Cash book provides all information regarding total receipts and payments of the business concern at a particular period. So that, effective policy of cash management can be formulated.

Kinds of Cash Book

The various kinds of cash book from the point of view of uses may be as follow:



a) Single Column Cash Book

Single column cash book (simple cash book) has one amount column in each side. All cash receipts are recorded on the debit side and all cash payments on the credit side. In fact, this book is nothing but a Cash Account. Hence, there is no need to open cash account in the ledger. The format of a single column cash book is given below.

b) Double Column Cash Book

The most common double column cash books is Cash Book with discount and cash columns. On either side of the single column cash book, another column is added to record discount allowed and discount received. The format is given below.

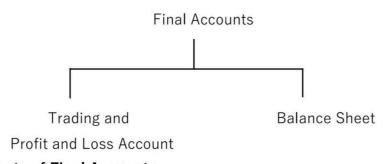
c) Triple Column Cash Book

Large business concerns receive and make payments in cash and by cheques. Where cash discount is a regular feature, a Triple Column Cash Book is more advantageous. This cash book has three amount columns (cash, bank and discount) on each side. All cash receipts, deposits into bank and discount allowed are recorded on debit side and all cash payments, withdrawals from bank and discount received are recorded on credit side.

5. FINAL ACCOUNTS

The businessman is interested in knowing whether the business has resulted in profit or loss and what the financial position of the business is at a given period. The final accounts are prepared at the end of the year from the trial balance.

Hence the trial balance is said to be the connecting link between the ledger accounts and the final accounts.



Parts of Final Accounts

The final accounts of business concern generally includes two parts. The first part is Trading and Profit and Loss Account. This is prepared to find out the net result of the

business.

The second part is Balance Sheet which is prepared to know the financial position of the business.

a) Trading Account

Trading means buying and selling. The trading account shows the result of buying and selling of goods. It is the first statement of balance sheet. . it has two side left side is debit and right side is credit

On debit side all direct expenses related to trading are recorded. On credit side all direct income related to trading are recorded.

The debit side posting of item start with "To" & on credit side start with "By" If the credit total bigger than debit total it is written as **gross profit** on debit side of trading account and while transfer to P/L account it is posted on credit side.

If the credit total lesser than debit total, than the difference is written as **gross loss** on credit side of trading account and while transfer to P/L account it is posted on debit side.

```
Debit side - credit side = +ve (gross profit)

credit side -Debit side = +ve (gross loss)

e.g- prepare a final a/c from the given trail balance
```

| S.N | Particulars | Dr. | Cr. |
|-----|--------------------------|--------|---------|
| | | Amount | Amounts |
| 1. | Capital a/c | | 20000 |
| 2. | Sale a/c | | 50000 |
| 3. | Purchase a/c | 30000 | |
| 4. | Drawing a/c | 6000 | |
| 5. | Shop, rent ,light a/c | 4000 | |
| 6. | Wages salary a/c | 6000 | |
| 7. | Shop,fixture & fitting | 15000 | |
| 8. | Amount due to supplier | | 5000 |
| 9. | Amount due from customer | 6500 | |
| 10. | Cash in hand | 7500 | |
| | | 75000 | 75000 |

SoIn=

Trading a/c-

| Dr. | | | | Cr. |
|-------------|--------|-------------|---------|-----|
| Particulars | Amount | Particulars | amounts | |

| To , purchase | 30000 | By sale | 50000 |
|-----------------|-------|---------|-------|
| To gross profit | 20000 | | |
| | 50000 | | 50000 |

b) Profit and Loss Account

After calculating the gross profit or gross loss the next step is to prepare the profit and loss account. To earn net profit a trader has to incur many expenses apart from those spent for purchases and manufacturing of goods.

If such expenses are less than gross profit, the result will be net profit. it is adjusted on debit side.

When total of all these expenses are more than gross profit the result will be net loss. & net loss adjusted on credit side.

Items appearing in the debit side

Those expenses which are chargeable to the normal activities of the business are recorded in the debit side of profit and loss account. They are termed as **indirect expenses**.

- i. **Office and Administrative Expenses:** Expenses incurred for the functioning of an office are office and administrative expenses office salaries, office rent, office lighting, printing and stationery, postages, telephone charges etc.
- ii. **Repairs and Maintenance Expenses:** These expenses relates to the maintenance of assets repairs and renewals, depreciation etc.
- iii. **Financial Expenses**: Expenses incurred on borrowings Interest paid on loan.
- iv. Selling and Distribution Expenses: All expenses relating to sales and distribution of goods advertising, travelling expenses, salesmen salary, commission paid to salesmen, discount allowed, repacking charges etc.

Items appearing in the credit side

Besides the gross profit, other gains and incomes of the business are shown on the credit side. The following are some of the incomes and gains.

i. Interest received on investment

- ii. Interest received on fixed deposits.
- iii. Discount earned.
- iv. Commission earned.
- v. Rent Received

Solution-

P/L account-

| Dr. | | | Cr. |
|-------------------------|--------|---------------------|---------|
| Particulars | Amount | Particulars | amounts |
| To , shop,rent,lighting | 4000 | By gross profit b/d | 20000 |
| To, wages | 6000 | | |
| To, net profit | 10000 | | |
| | 20000 | | 20000 |

c) Balance Sheet:

It is a statement showing the financial position of a business. Balance sheet is prepared by taking up all personal accounts and real accounts (assets and properties) together with the net result obtained from profit and loss account.

On the left hand side of the statement, the liabilities and capital are shown. On the right hand side, all the assets are shown.

Balance sheet is not an account but it is a statement prepared from the ledger balances. So we should not prefix the accounts with the words 'To' and 'By'.

Balance sheet is defined as 'a statement which sets out the assets and liabilities of a business firm and which serves to ascertain the financial position of the same on any particular date'.

The right hand side of the balance sheet is asset side and the left hand side is liabilities side. All accounts having debit balance will appear in the asset side and all those having credit balance will appear in the liability side.

Need:

The need for preparing a Balance sheet is as follows:

- i. To know the nature and value of assets of the business
- ii. To ascertain the total liabilities of the business.
- iii. To know the position of owner's equity.

Horizontal form of Balance Sheet:

| Balance Sheet of | |
|------------------|--|
| as on | |

| Liabilities | Rs. | Rs. | Assets | Rs. | Rs. |
|----------------------|-----|-----|----------------------|-----|-------|
| Sundry creditors | | xxx | Cash in hand | | ххх |
| Bills payable | | xxx | Cash at bank | | ххх |
| Bank overdraft | | xxx | Bills receivable | | xxx |
| Outstanding expenses | | xxx | Sundry debtors | | ххх |
| Mortgage loans | | xxx | Investments | | xxx |
| Reserve fund | | xxx | Closing stock | | xxx |
| Capital | xxx | | Prepaid expenses | | xxx |
| Add: Net profit (or) | | | Furniture & fittings | | xxx |
| Less: Net loss | xxx | | Plant & machinery | | xxx |
| | | | | | |
| | XXX | | Land & buildings | | XXX |
| Less: Drawings | xxx | | Business premises | | xxx |
| | | | Patents & trade | | |
| | xxx | | marks | | xxx |
| Less: Income tax | xxx | | Good will | | xxx |
| | | | | | |
| | | XXX | | | |
| | | | | | V V V |
| | | XXX | | | XXX |
| | | | | | |

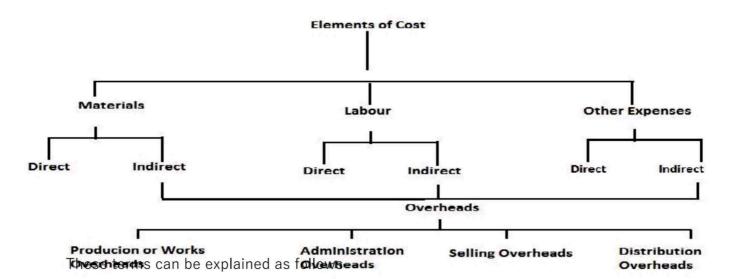
e.g soln= balance sheet- on date-04/01/2020

| Liabilities | Amount | Assets | amounts |
|----------------------------|--------------|-----------------------|--------------|
| Amount due to supply | 30000 | Shop fitting, fixture | 15000 |
| Capital a/c | 20000 | Amount due from | 6500 |
| Balance = 20000 | | customer | |
| (+) net profit = 10000 (+) | | Cash at bank | 7500 |
| (-) drawing = 6000 (-) | | | |
| | 24000 | | |
| | | | |
| | <u>29000</u> | | <u>29000</u> |

Cost-

Elements of Cost-

The management of an organization needs necessary data to analyze and classify costs for proper control and for taking decisions for future course of action. Hence the total cost is analyzed by elements of costs ie by the nature of expenses. The elements of costs are three and they are materials, labour and other expenses. These can be further analyzed as follows.



- 1. Direct Materials are those materials which can be identified in the product and can be conveniently measured and directly charged to the product. For example, bricks in houses, wood in furniture etc. Hence all raw materials, materials purchased specifically for a job or process like glue for book making, parts or components purchased or produced like batteries for radios and tyres for cycles, and primary packing materials are direct materials.
- Indirect Materials are those materials which cannot be classified as direct
 materials. Examples are consumables like cotton waste, lubricants, brooms, rags,
 cleaning materials, materials for repairs and maintenance of fixed assets, high speed
 diesel used in power generators etc.
- 3. Direct Labour is all labour expended in altering the construction, composition, confirmation or condition of the product. Thus direct wages means the wages of labour which can be conveniently identified or attributed wholly to a particular job, product or process or expended in converting raw materials into finished goods. Thus payment made to groups of labourers engaged in actual production, or carrying out of an operation or process, or supervision, maintenance, tools setting, transportation of materials, inspection, analysis etc is direct labour.
- 4. **Direct Expenses** are expenses directly identified to a particular cost centre. Hence expenses incurred for a particular product, job, department etc are direct expenses. Example royalty, excise duty, hire charges of a specific plant and equipment, cost of any experimental work carried out especially for a particular job, travelling expenses incurred in connection with a particular contract or job etc.
- 5. **Overheads** may be defined as the aggregate of the cost of indirect materials, all indirect expenses are known as over head.

 indirect labour and such other expenses including services as cannot conveniently be charged direct of specific cost units. Overheads may be sub-divided into (i) Manufacturing Overheads; (ii) Administration Overheads; (iii) Selling Overheads; (iv) Distribution Overheads; (v) Research and Development Overheads.

7. Cost sheet or Statement of Cost:

Cost sheet:

When costing information is presented in the form of a statement, it is called "Cost Sheet". Cost sheet is a device used to determine and present the cost under unit costing.

It is a statement of costs incurred at each level of manufacturing a product or service. In a Cost sheet all the elements of cost is taken into consideration.

It includes Prime cost, Factory/manufacturing cost, cost of production, cost of sale Profit/loss etc. The information incorporated in a cost sheet would depend upon the requirement of management for the purpose of control.

Items excluded from Cost Sheet:

- 1. Pure financial expenses like interest on capital, interest on loan, discount on debentures, loss on sale of fixed asset provision for bad debts and doubtful debts, writing off goodwill, copyright, preliminary expenses etc.
- 2. Pure financial incomes like interest received, profit on sale of investment, dividend received, rent received, commission received, discount received etc.

Specimen of Cost Sheet or Statement of Cost

| Specimen of Cost She | et or Statement of Cost | | |
|--|-------------------------|------------|----------|
| | | Total cost | Cost per |
| | | | unit |
| | | Rs | Rs |
| Direct Materials | | XXX | xxx |
| Direct Labour | | xxx | xxx |
| | Prime cost | XXXX | xxx |
| Add factory over head | | xxx | xxx |
| | Factory cost | XXXX | xxx |
| Add office overhead | | xxx | xxx |
| | Cost of production | XXXX | xxx |
| Add selling and distribution over head | | xxx | xxx |
| | Cost of sale | XXXX | xxx |
| | Add profit | xxx | xxx |
| | Total sale | XXXX | xxx |

. Linear Break-Even Analysis

The broader interpretation refers to that system of analysis which determines the probable profit at any level of activity. The relationship among cost of production, volume of production, the profit and the sales value is established by break-even analysis. Hence, this analysis is also designated as 'Cost-volume-profit' analysis.

Advantages:

Such an analysis is useful to the management accountant in the following respects:

- (i) It helps him in forecasting the profit fairly accurately.
- (ii) It is helpful in setting up flexible budgets, since on the basis of this relationship, he can ascertain the costs, sales and profits at different levels of activity.
- (iii) It also assists him in performance evaluation for purposes of management control.
- (iv) It helps in formulating price policy by projecting the effect, which different price structures will have on cost and profits.
- (v) It helps in determining the amount of overhead cost to be charged at various levels of operations, since overhead rates are generally pre-determined on the basis of a selected volume of production.

Break-even point

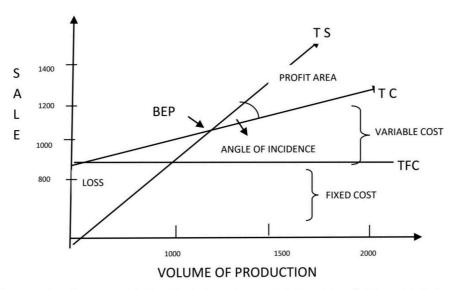
The point, (volume of sale or volume of production) at which there shall be neither profit nor loss, is regarded as break-even point. At this point, the income of the business exactly equals its expenditure.

Assumption

basic assumptions for breakeven analysis are:

- The behavior of both costs and revenues is linear throughout the relevant range of activity. (This assumption rule out the concept of volume discounts on either purchased materials or sales.)
- Changes in activity are the only factors that affect costs.
- Costs can be classified accurately as either fixed or variable.
- Constant total fixed cost;
- Variable cost must be directly proportional to output and variable cost per unit must be constant;
- All units produced are sold (there is no ending finished goods inventory).
- When a company sells more than one type of product, the sales mix (the ratio of each product to total sales) will remain constant.

Constant sales price;



T.S= total sale

TC = Total cost

BEP = Break Even Point

Construction of Break-even Chart:

Construction of break-even chart involves the drawing of fixed cost line, total cost line, and sales line as follows:—

- (1) Select a scale for production on the horizontal axis and a scale for costs and sales on the vertical axis.
- (2) Plot the fixed cost on the vertical axis and draw fixed cost line passing through this point parallel to horizontal axis.
- (3) Plot the variable costs for some activity levels starting from the fixed cost line and join these points. This will give the total cost line. Alternatively, obtain total cost at different levels, plot the points starting from horizontal axis and draw the total cost line.
- (4) Plot the maximum or any other sales volume and draw the sales line by joining zero and the point so obtained.

Mathematical formula:

Marginal cost = Total variable cost

Or = Total cost - Fixed cost

 $Or = Direct Material + Direct labour + Direct Expenses (Variable) + Variable overheads \\ Contribution = Selling Price - Variable cost \\ Profit = Contribution - Fixed cost \\ Fixed cost = Contribution - Profit \\ Contribution = Fixed cost + Profit \\ Profit/Volume Ratio = <math display="block"> \frac{Contribution \ per \ unit}{Selling \ price \ per \ unit} \\ Or = \frac{Total \ contribution}{Total \ sales}$

In case P/V ratio is to be expressed as a percentage of sales, 100 as given above should multiply the figure derived from the formulae.

$$Break-even\ point = \cfrac{Fixed\ cost}{Contribution\ per\ unit}$$

$$Break-even\ point = \cfrac{Fixed\ cost}{Total\ contribution}\ x\ Total\ sale$$

$$Break-even\ point = \cfrac{Variable\ cost}{Selling\ price\ per\ unit}$$

$$Break-even\ point = \cfrac{Fixed\ cost}{P\ /\ V\ Ratio}$$

At break-even point the desired profit is zero, in case the volume of output of sales is to be computed for 'a desired profit', the amount of 'desired profit' should be added to Fixed Costs in the formulae given above.

For example:

Units for a desired profit = (Fixed cost + Desired profit) / Contribution per unit Sales for a desired profit = (Fixed cost + Desired profit) / (P/V Ratio)

This will be clear from the following illustrations:

Illustration 1: A factory manufacturing sewing machines has the capacity to produce 500 machines per annum. The marginal (variable) cost of each machine is Rs. 400 and each machine is sold for Rs. 450. Fixed overheads are Rs. 24,000 per annum. Calculate the break-even points for output and sales and show what profit will result if output is 90% of capacity?

Solution: Contribution per machine is Rs. 450 - Rs. 400 = Rs. 50.

Break-even point for output (Output, which will give 'contribution' equal to fixed costs Rs. 12,000)

Break-even point for sales

```
= Output \times Selling price per unit
= 480 \times Rs. 450 = Rs. 2,16,000
```

Break-even point for sales can also be calculated with the help of any of the following formulae:

```
(i) B.E.P. = (Total fixed cost) / (1 - (Variable cost per unit / Selling price per unit))
= 24,000 / (1 - (400 / 450))
= 24,000 / (1-0.888888) = 24,000 / (0.11111)
= Rs. 2,16,000
```

Margin Of Safety (MoS) -

Margin of safety is the excess over the break-even sales, and represents the strength of the organisation. A high margin of safety gives confidence to the organisation. A sudden drop in volume will not affect the profit so much. On the other hand, an undertaking with low margin of safety may wipe oft the profit and turn into a loss with a drop in sales. Margin of safety (MoS) can be mathematically expressed using the marginal cost equations,

```
namely, —
```

Margin of safety = Sales at selected activity – Break-even Sales When profit = Sales – Total cost, and P/V ratio = Contribution / Sales When M/S is expressed in ratio

we get, MoS = Sales at selected activity - B. E. S. Sales at selected activity.

Angle Of Incidence:

This is the angle formed by the sales line and the total cost line at the break-even point. Angle of incidence is an indicator of profit earning capacity above the break-even point. A wider angle will indicate higher profitability, while a narrow angle will indicate very low profitability.

If margin of safety and angle of incidence are considered together, they will provide significant information to management regarding profit earning position of the undertaking. A high margin of safety with a wider angle of incidence will indicate the most favourable condition of the business.

Limitations

- 1. Break-even analysis is only a supply-side (i.e., costs only) analysis, as it tells you nothing about what sales are actually likely to be for the product at these various prices.
- 2. It assumes that fixed costs (FC) are constant. Although this is true in the short run, an increase in the scale of production is likely to cause fixed costs to rise.
- 3. It assumes average variable costs are constant per unit of output, at least in the range of likely quantities of sales. (i.e., linearity).

Human resource Management (HRM):-

HRM is (helps) systematically forecast an organization's future demand for, and supply of employees so, HRM deals with recruitment, selection, training & other activities.

- Human resource planning helps an organization to staff itself with right people at right time.
- It consists with areas like
- (a) Demand fore casting
- (b) Supply fore casting & sources
- (c) Productivity of employee & cost involve analysis
- (d) Action planning (how to deal with forecast)
- (e) Estimating Human resource budget & contract of the plans against them.

(1) Recruitment:-

Recruitments concern with the identification of sources from where the personnel can be employed.

(Def.) By Edwin-B- Flippo it is the process of searching for prospective employees & stimulating them to apply for job.

It helps management to select suitable employees for different job.

Purpose of recruitment is

- Determine present & future requirement of personal of the organization.
- Increase no of job candidate(applicants) with win cost
- Increase success rate of the selection process.
- Help to reduce the probability that job applicant will not leave job once recruited
- Meet organization legal & social obligation. Recruitment may be internal or external
- (i) **Internal:** recruitment with in the industry because right no of people also available in side organization. This can be either by promotion or transfer as by companies tanning scheme.
- (ii) **External**:- Organization go for external search this can be done through
 - (i) Advertisement, (ii) employment agencies, (iii) Campus recruitment, (iv) Gate hiring etc.

(2) Selection:-

Next to recruitments is selection.

- Selection is a deliberate effort of organization to select a fixed no of personal from large number of applicants
- It is essential that, if right type of person are not selected it will lead to huge loss to the organization in term of time, effort &
- The selection process varies from organization to organization & for different positions.

Steps in selection

- (i) Screening of applications
- (ii) Selection test
- (iii) Interview
- (iv) Checking of references
- (v) Physical examination
- (vi) Approval by authority

5) Training & Development:-

Employment needs training to perform his/her duties effectively.

Training is the act of increasing knowledge, skill of an employee for a particular job.

Importance of training:-

- (a) Increase in efficiency:- In training he learn how to do a job
- (b) **Increase moral:-** moral related to satisfactions they have the skill to performs job & understand if than their confidence level increase do well as satisfaction which helps to increase moral.
- (c) **Reduce supervision**:- because they know what & how to performance through training.
- (d) Increase organizational flexibility & viability.:Trained people can be placed as short term adjustment with loss of key personal.

Methods of training:-

Two type: On job training, Off job training

- 1) On job training:- It is learning while an individual is actually engaged in work.
 - (a) on specific job:- person devlop skill on working
 - (b) position rotation:- here emoloyee shifted to different position with in the organisation after a span of time. It is to increase organisations flexibility.
 - (c) Apprenticeship:- The trainee is put under the supervision of person who may be an experiences
- 2) Off Job training:- Here trainee has to leave his place for working & spend whole time in training. Training may be inside or out side organization, Lecture, refresher course, seminar, conferences role playing, cases, Brains storming etc.
 - **Special courses**:- Expert comes deliver speeches on concern subject creating awareness of the knowledge in the concern subjects
 - **Conferences:** participants discuss ideas & experiences with others in attempting to arrive an improved method to det with problem.

- Role playing:- In a group various individual given role of different managers who may required to solve a problem or reach at a decision this helps trainee to develop better ideas to perform the job.
- **Brain storming:** Here a problem put in a group where the group find a solution for the problem by integrating all ideas generated in the group
 - Members may from different field
 - Members can frankly put their ideas with out interpretation & limitation.
 - Any evolution, criticism, judgment, comments not allowed during idea generation.
- Cases:- Written description of a problem of the organization with all aspects given to the members
 - There is an instructor who instructs each member of a group to present his analysis & to comments on others.
 - So analytical skill developed which helps in decision making.

Performance appraisal:-

- It is a systematic evaluation of personal by superior or other familiar with their performance.
- It is also describe as the merit rating in which are individual is ranked as better or worse in comparison to other.
- Performance appraisal usually occur periodically. it may be semi-annually or annually.
- P.A. is the systematic & objective way of judging relative worth or ability of a sub ordinate in performing his job.
- Here same approach of P.A. applied for different person & both rater & rates know the system ..

Importance:-

P.A. are conducted for various purpose such as In India P.A. is done for mainly 3 reasons.

(i) Salary increase

- (ii) For training & development
- (iii) For organization promotion & placement
- (iv) Contrarily besides that it helps by providing
- (v) Feedback to employee
- (i) Salary Increase: Normally salary increase of an employee depend on how he is performing his job. It regular scale have not been fixed.
- (ii) **Promotion:-** same company's give promotion of the basis of merit & seniority.
 - P.A. help to identify his strong & weak areas compactor of an employee on the light of this he can be promoted to next level.
- (iii) **Training & development:-** P.A. tries to identify the strength & weakness of an employee on his present job which help in identifying type of training & development programmers appropriate for over coming weakness.
- (iv) Feed back: P.A. gives feed back to employee, about their performance. It tell them where are they this contributes two ways.
 - (a) The person gets feed back about his performance rectify it.
 - (b) The can relate their work with org. objective & how it can be improved & gets satisfaction knowing their contribution to organization.
- Pressure in employee:- It put a small pressure on employee for better performance, If the employees are conscious that they are being appraised in respect of certain factor, automatically they shows positive behavior.
 It acts as a control device.

1. MARKETING

Meaning Of Market

Generally, a "market place" is presumed as a "market". But conceptually market may differ from market place. Markets need not necessarily a place of exchange.

"Market is a set of existing and potential buyers for a defined product or services."

A market always defined in geographical terms like urban, rural etc. or a market is always defined for a product at a given time.

Market place – it is a physical place where one goes for shopping or exchange of goods taking place between buyers and sellers. Examples- Bazaar, Mall, Store etc. virtual market - Virtual marketing is digital in nature and advertising via the internet (websites, programs, emails, etc), shopping through online etc vs. other forms of advertising such as radio, TV, print, etc. Virtual marketing is less expensive, and you can reach a great number of people

metamarket :-

The **metamarket**, a concept proposed by Mohan Sawhney, describes all complementary products and services that are closely related in the minds of consumers but are spread across a diverse set of industries. Example- The automobile metamarket consists of automobile manufacturers, new and used car dealers, financing companies, insurance companies, mechanics, spare parts dealers, service shops, auto magazines, classified auto ads in newspapers, and auto sites on the Internet. These complementary players attached with the main product are called metamediaries.

Defining Marketing

We can distinguish management by a social and a managerial definition. According to a social definition, **marketing** is a societal process by which individuals and groups obtain what they need and want through creating, offering, and exchanging products and services of value freely with others.

As a managerial definition, marketing has often been described as "the art of selling products."

The American Marketing Association offers this managerial definition:

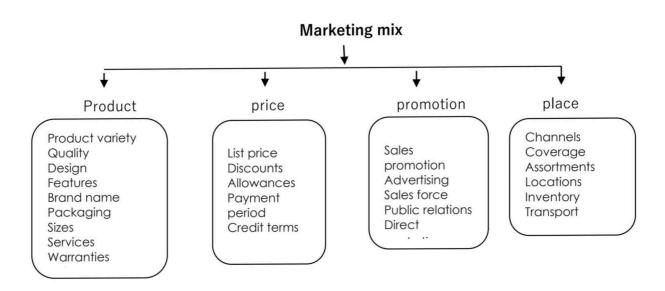
Marketing (management) is the process of planning and executing the conception, pricing, promotion, and distribution of ideas, goods, and services to create exchanges that satisfy individual and organizational goals.

Marketing Mix

Marketing mix is the set of marketing tools that the firm uses to pursue its marketing objectives in the target market. McCarthy classified these tools into four broad groups that he called the four Ps of marketing: product, price, place, and promotion. Marketing-mix decisions must be made to influence the trade channels as well as the final consumers. Typically, the firm can change its price, sales-force size, and advertising

expenditures in the short run. However, it can develop new products and modify its distribution channels only in the long run. Thus, the firm typically makes fewer period-to-period marketing-mix changes in the short run than the number of marketing-mix decision variables might suggest.

According to Philip Kotlar — Marketing mix is the mixture of controllable marketing variables that the firm uses to pursue the sought level of sales in the target market \parallel . According to William J. Stanton — Marketing mix is the term used to describe the combination of the four inputs which constitute the core of a company's marketing system; The product, the price structure, the promotional activities and distribution system.



Elements of Marketing Mix:

The elements of marketing mix are described below:

(i) **Product:** Product means anything which can satisfy consumers needs and wants through exchange process. The marketer may offer a single product or several products. The marketer should also revise the product design, make improvements in the products frequently so as to suit the changing tastes, habits and preferences of the consumers. Packaging and branding decisions are also included in product decision.

- (ii) **Price:** Price is the value which is paid by the buyer to the manufacturer in exchange of the products and services. The marketer has to take into consideration the cost factors, profit margin, the possibility of sales at different price level and the competitors pricing policy as well as number of competitors.
- (iii) **Promotion:** The marketers should provide information to the customers about its products and services and motivate customers to buy. Advertising, personal selling, publicity and other sales promotional programs are the various promotional activities. All these activities increase the volume of sales by expending as well as retaining the market share for the products. Promotion is done for three purposes (a) informing, (b) persuading and (c) influencing consumers.
- (iv) **Physical Distribution:** Distribution is the delivery of the product and transfer of ownership to the buyers and consumers. It includes channels and outlets through which products move to the buyer and arranging their physical movement to different market segments. It depends upon the middlemen, products and services, channels of distribution etc. It maintains the flow of products and services from the producers to the buyers.

Importance Of Marketing

Business without marketing is just impossible. It satisfies human wants and also serves as an instrument for economic growth and social welfare.

The importance of marketing may be studied from both from the point of view of society and producer.

Importance of marketing from society point of view:

Some of the points which can explain its importance are as under:-

i) Satisfies human wants :-

The essence of marketing is to understand the needs and wants of consumers. It identifies unfulfilled human needs, convert them into business opportunities and as it involves in production and distribution process, through the exchange process satisfies the customers.

ii) Generates Employment :-

Marketing generates job opportunities directly or indirectly. Marketing involves in various functions like production, distribution, promotion etc. Thousands of people are employed in these sectors. Thus people gets work for their hands.

iii) Improves standard of living :-

Marketing facilitates introduction of new and better products and also as per needs of consumers. which improves the standard of living at large. Consumers may start consuming good quality products as marketing has converted —yesterday's \parallel luxuries into today's necessities. This leads towards standard of living.

iv) It helps to provide economic stability: Good marketing system enables to maintain the price level stable by equalizing the demand and supply at various places and different period. This is possible by creating time and place utility.

v) Creates utility:-

Marketing is important as it creates form, time, place and possession utilities. Such utility creation gives satisfaction and pleasure to consumers.

Importance of marketing from producers/firms point of view

Some of the points which can explain its importance are as under:-

i) Achieves objectives :-

With the help of the marketing activities, business firms can earn good amount of profit. This helps them to achieve business objectives like increase in market share, creating goodwill, expanding business and so on.

ii) Marketing creates awareness

Marketing creates awareness among potential consumers and motivates people to purchase the products and services to satisfy their needs and wants. In this process, the firms generate revenue by selling the goods and services with which the firms further produce and grow.

iii) Introduction of new products:-

In order to stay ahead in competition, it is necessary for an organisation to develop new products frequently. Marketing functions like research, product development etc. facilitate introduction of new products. As marketing starts with customer and ends with it also indentifies exact need of the people and according introduces the product.

iv) Widens Markets :-

Marketing widens market through large-scale movement of goods throughout the country. Marketing includes various promotional tools like advertising personal selling, sales promotion, direct marketing etc. These promotional tools help a firm to expand its market from local to regional to national and at international level.

v) Facilitates specialisation and division of labour :-

Marketing functions, if performed successfully, leads to specialisation, division of a labour and efficient performance of production of functions. Marketing gives basic ideas

about customers needs and requirements, business can arrange and allocate resources accordingly which leads to division of labour.

vi) Connects the producers and consumers:

Marketing connects the producers and consumers the producers produce goods and services for the purpose of selling. Therefore, the producers should be in touch with the consumers who require such goods and services. In the absence of marketing process, it would have been extremely difficult for producer to find out what customer want.

vii) Channel of communication

The marketing organization provides a channel of communication between the firm and the consumers. It is furnishing information about the consumers demands, tastes and preferences to the top managements. This process helps the firm to adjust its production schedule to suit the tastes of the consumers.

viii) Economic growth :-

Marketing brings industrial and economic growth as it creates new demands for goods and thereby encourages production activities. This leads to the creation of massive employment opportunities Thus marketing is the kingpin that sets revolving of the whole economy.

1. Inventory control -:

Meaning of Inventory

Inventory means "a list of movable items which are required for the manufacturing the products and to maintain the plant facilities in working condition at a particular point of time." Inventory can be A) Direct Inventory or B) Indirect Inventory

Direct Inventory comprises of stocks of materials, components, work-in-progress, and finished products and stores and spares.

Indirect Inventory comprises of tools, supplies, consumable stores, broom, welding rod, abrasive materials etc.

Inventory Control

Inventory Control means "making desired items of required quality and in required quantity available to various departments when needed at an economic rate". An optimum quantity of inventory should be maintained to avoid storage problem and to check production related disturbances due to unavailability of inventory.

The main objective of inventory control is to achieve maximum efficiency in production and sales with the minimum investment in inventory. Inventory control refers supervision of supply, storage and accessibility of items of inventory in order to ensure adequate supply without excessive oversupply. Material control is an important managerial function which is directed to ensure that required quantity and quality of material is provided at the proper time with the minimum amount of capital.

Inventory control is affected by coordination and control activities relating to planning, sourcing, purchasing, moving and storing of materials. Inventory control and material control are synonym.

Needs for Inventory:

- 1. To ensure against delay in deliveries:— When order placed for fresh stock it will take time to reach. The time of placing the order and the time of stock arrival is often subjected to variation that's why firm must have reserve stock to continue.
- 2. Allow for possible increase in output:— if demand increases for finished goods the inventory must be capable to handle the increase demand.
- 3. To take advantage of quantity discount: materials and components may be cheaper when purchased in huge quantity as well as paper work and inspection of materials is simplify when order quantity is large.
- 4. Maintain smooth and efficient increase in production flow: Stock out of materials means interruption in production which rises production cost sufficient inventory could be able to avoid stock out even if against the scarcity of materials in the market.
- 5. **Better utilization of men and machine :-** sufficient inventory could be able to avoid stock out that result into better utilization of men and machine.

Advantages of Inventory Control

- (a) Ensures uninterrupted flow of materials of the right quality at any stage of production.
- (b) Materials made available at economic rate.
- (c) Delay, Interruption in production due to non availability of materials may not occur.

- (d) Exact and accurate date of delivery can be forecast.
- (e) Materials are protected from spoilage, deterioration, destroy etc.
- (f) It eliminates wastages in use of raw materials and supplies in course of purchase, storage handling and use.
- (g) Reduces the risk of fraud and theft.
- h) Furnishes quickly and accurately the value of material and supplies used in various departments.
- i) Reduces to the minimum the capital locked up in inventories.
- j) Facilities preparation of accurate monthly financial statements required for various management information reports.
- k) Increase in overall efficiency and productivity of the company.

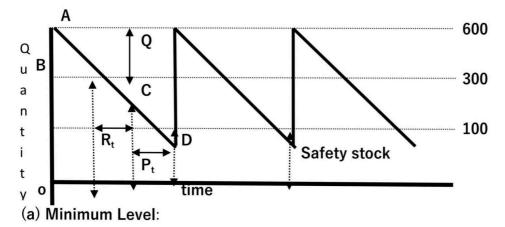
Techniques of Inventory Control

The techniques or the tools commonly applied to effect control over the inventory are following:

- 1 Setting of Various Stock Levels.
- 2 ABC Analysis.
- 3 Determination of Economic Order Quantity.

1. Setting of Various Stock Levels:

To avoid over-stocking and under-stocking each item of the inventory has the maximum levels, minimum levels and an order point.



The lowest figure of inventory balance, which must be maintained in hand at all times, so that there is no stoppage of production due to non-availability of inventory. It is also

known as 'Buffer stock', 'Safety stock' 'minimum limit' or 'Minimum stock'.

The main considerations for the fixation of minimum level of inventory are as follows:

- 1. Information about maximum consumption and maximum delivery period in respect of each item to determine its re-order level.
- 2. Average rate of consumption for each inventory item.
- 3. Average delivery period for each item. This period can be calculated by averaging the maximum and minimum period.

The formula used for its calculation is as follows:

Minimum level of inventory = Re-order level – (average rate of consumption x average time of inventory delivery)

(b) Maximum Level:

It indicates the maximum quantity of inventory quantity held in stock at any time. It is also known as 'Maximum limit' or 'Maximum stock'.

The important considerations which should govern the fixation of maximum level for various inventory items are as follows:

- 1. The fixation of maximum level of an inventory item requires information about its re-order level. The re-order level itself depends upon its maximum rate of consumption and maximum delivery period. It in fact is the product of maximum consumption of inventory item and its maximum delivery period.
- 2. Knowledge about minimum consumption and minimum delivery period for each inventory item should also be known.
- 3. The determination of maximum level also requires the figure of economic order quantity.
- 4. Availability of funds, storage space, nature of items and their price per unit are also important for the fixation of maximum level.
- 5. In the case of imported materials due to their irregular supply, the maximum level should be high.

The formula used for its calculation is as follows:

Maximum level of inventory = Re-order-level + Re-order quantity - (Minimum Consumption x Minimum re-order period)

(c) Re-Order Level:

It is also known as 'Ordering level', 'Reorder point'. Order point is a point at which order for supply of materials or goods is placed. This level lies between minimum and the maximum levels in such a way that before the material orders is received into the stores, there is sufficient quantity on hand to cover both normal and abnormal consumption situations. In other words, it is the level at which fresh order should be placed for replenishment of stock.

The formula used for its calculation is as follows:

Re-order level = Maximum re-order period x maximum Usage

(or) = Minimum level + (Average rate of consumption x Average time to obtain fresh supplies).

(d) Average Inventory level:

This level of stock may be determined by using the following equal formula:

Average inventory level = Minimum level + ½ Re-order quantity

Average inventory level = (Maximum level + Minimum level) ¥ 2

(e) Danger Level:

It is the level at which normal issues of the raw material inventory are stopped and emergency issues are only made. As and when the danger level is reached, the material has to be purchased at any price at which available.

The formula used for its calculation is as follows:

Danger level = Average Consumption x Lead time for emergency purchases

(f) Lead time

It is the time interval between the time need for the materials is determined and the time the materials actually received.

$$L = P_t + R_t$$

Illustration: 1

Two Components, A and B are used as follows:

Normal usage 50 per week each

Maximum usage 75 per week each

Minimum usage 25 per week each

Re-order quantity

Re-Order period

A:300; B:500

A: 4 to 6 Weeks

B: 2 to 4 weeks

Calculate for each component (a) Re-ordering level, (b) Minimum level, (C) Maximum level (d) Average Stock level.

Solution:

(a) Re-ordering level:

Maximum usage per week x Maximum delivery period.

Re-ordering level for component A = 75 units x 6

Weeks = 450 units

Re-ordering level for component B = 75 units x 4

Weeks = 300 units

(b) Minimum level:

Re-order leave – (Normal usage x average period)

Minimum level for component A = 450 units - 50 units x 5 weeks = 200 units

Minimum level for component B = 300 units - 50 units x 3 weeks = 150 units

(c) Maximum level:

ROL + ROQ - (Min. Usage x Minimum period)

Maximum level for component A = (450 units + 300 units) - (25 units x)

4weeks) = 650 units Maximum level for component B = (300 units + 500

units) – $(25 \text{ units } \times 2 \text{ weeks}) = 750 \text{ units}$

(d) Average stock level:

½ (Minimum + maximum) Stock level

Average stock level or component $A = \frac{1}{2}$ (200 units + 650 units)

= 425 units. Average stock level for component B = $\frac{1}{2}$ (150 units

+ 750 units) = 450 units.

1. ABC Analysis:

This system exercises control over different items of stores classified on the basis of the investment involved. Usually the items are divided into three categories according to their importance, namely, their value and frequency of replenishment during a period.

(i) 'A' Category of items consists of only a small percentage i.e. about 10% of the total items handled by the stores but require heavy investment about 70% of

inventory value, because of their high prices or heavy requirement or both.

- (ii) **'B'** Category of items is relatively less important; they may be 20% of the total items of material handled by stores. The percentage of investment required is about 20% of the total investment in inventories.
- (iii) **'C'** Category of items does not require much investment; it may be about 10% of total inventory value but they are nearly 70% of the total items handled by store.

'A' Category of items can be controlled effectively by using a regular system which ensures neither over-stocking nor shortage of material for production. Such a system plans its total material requirements by making budgets. The stocks of materials are controlled by fixing certain levels like maximum level, minimum level and re-order level. a reduction in inventory management costs is achieved by determining economic order quantities after taking into account ordering cost and carrying cost. To avoid shortage and to minimize heavy investment in inventories, the techniques of value analysis, variety reduction, standardization etc., may be used.

In the case of 'B' category of items, as the sum involved in moderate, the same degree of control as applied in 'A' category of items is not required the orders for the items, belonging to this category may be placed after reviewing their situation periodically.

For 'C' category of items, there is no need of exercising constant control. Orders for items in this group may be placed either after six months or once in a year, after ascertaining consumption requirements. In this case the objective is to economies on ordering and handling costs.

Illustration - 2:

A factory uses 4,000 varieties on inventory. In terms of inventory holding and inventory usage, and following information is compiled:

| | | %value of | |
|---------------------|----------------|-------------------|-------------------|
| No. of varieties of | | inventory holding | %of inventory |
| inventory | Percentage (%) | (average) | usage(in product) |
| 3,875 | 96.875 | 20 | 5 |

| 110 | 2.750 | 30 | 10 |
|-------|-------|-----|-----|
| 15 | 0.375 | 50 | 85 |
| 4,000 | 100 | 100 | 100 |

Classify the items of inventory as per ABC analysis with reasons.

Solution:

Classification of the items of inventory as per ABC analysis

- 1. 15 number of varieties of inventory items should be classified as 'A' category items because of the following reasons:
 - (i) Constitute 0.375% of total number of varieties of inventory handled by stores of factory, which is minimum as per given classification in the table.
 - (ii) 50% of total use value of inventory holding (average) which is maximum according to the given table.
 - (iii) Highest in consumption about 85% of inventory usage (in end-product).
- 2. 110 number of varieties of inventory items should be classified as 'B' category items because of the following reasons:
 - (i) Constitute 2.750% of total number of varieties of inventory items handled by stores of factory.
 - (ii) Requires moderate investment of about 30% of total use value of inventory holding (average).
 - (iii) Moderate in consumption about 10% of inventory usage (in end-product).
- **3.** 3,875 number of varieties of inventory items should be classified as 'c' category item because of the following reasons:
 - (i) Constitute 96.875% of total varieties of inventory items handled by stores of factory
 - (ii) Requires about 20% of total use value of inventory holding (average).
 - (iii) Minimum inventory consumption i.e. about 5% of inventory usage (in end-product).

Advantages of ABC analysis: the advantages of ABC analysis are the following:

(i) Continuity in production: It ensures that, without there being any danger of

- interruption of production for want of materials of stores, minimum investment will be made in inventories of stocks of materials or stocks to be carried.
- (ii) Lower cost: The cost of placing orders, receiving goods and maintaining stocks is minimized specially, if the system is coupled with the determination of proper economic order quantities.
- (iii) Less attention required: management time is saved since attention need be paid only to some of the items rather than all the items as would be the case if the ABC system was not in operation.
- (iv) Systematic working: With the introduction of the ABC system, much of the work connected with purchases can be systematized on a routing basis to be handled by subordinate staff.

2. Economic Order Quantity (EOQ):

Purchase department in manufacturing concerns is usually faced with the problem of deciding the 'quantity of various items' which they should purchase. The matter under consideration is not 'how much to purchase' but 'how much to purchase at one time.' If purchases of material are made in bulk then inventory carrying cost will be high. On the other hand if order size is small each time, then the ordering cost will be high. In order to minimize ordering and carrying costs it is necessary to determine the order quantity which minimizes these two costs.

Economic order quantity is an order size. The size of the order for which both ordering and carrying cost are minimum, is known as economic order quantity.

Ordering Cost: The cost which is associated with the purchasing or ordering of material. It includes costs of staff posted for ordering for goods, expenses incurred on transportation of goods purchased, inspection cost of incoming material etc.

Carrying Cost: The cost for holding the inventories. It includes the cost of capital invested in inventories. Cost of storage, insurance cost etc.

Assumptions underlying E.O.Q.: The calculation of economic order of materiel to be purchased is subject to the following assumptions:

(i) Ordering cost per order and carrying cost per unit per annum are known and they are fixed.

- (ii) Anticipated usage of material in units is known.
- (iii) Cost per unit of the material is constant and is known as well.
- (iv) The quantity of material ordered is received immediately i.e. the lead time is zero. The famous mathematician Wilson derived the formula which is used for determining the size of order for each of purchases at minimum ordering and carrying costs. The formula given by Wilson for calculating economic order quantity is as follows:

$$EOQ = \sqrt{\frac{2A o}{c}}$$
 A = Annual usage in units

Where,

O = Ordering cost per order

C = Annual carrying cost of one unit, i.e., carrying cost per unit per ann

(Carrying cost

percentage x cost of one unit)

Illustration - 3:

Calculate the Economic order Quantity from the following information. Also state the number of orders to

be placed in a year.

Consumption of materials per annum : 10,000 kg. Order placing cost per order Rs. 50 Cost per kg. of raw material Rs. 2

Storage costs 8% on average inventory

Solution:

$$EOQ = \sqrt{\frac{2AO}{C}}$$

A = Annual consumption in units

O = Ordering cost per order

C = Inventory carrying cost per unit per annum

$$EOQ = \sqrt{\frac{\frac{2x10,000x50}{2x8}}{100}} = \sqrt{\frac{\frac{2x10,000x50x50}{4}}{4}}$$

Total Consumption of materials per annum =
$$\frac{\text{No. of order to be placed in a year}}{\text{EOQ}}$$
$$= \frac{10,000 \text{kg}}{2,500 \text{kg}} = 4 \text{order per year}$$

Illustration - 5:

About 50 items are required every day for a machine. A fixed cost of Rs. 50 per order is incurred for placing an order. The inventory carrying cost per item amounts to Rs. 0.02 per day. The lead period is 32 days. Computer:

- (I) Economic order quantity.
- (II) Re-Order level.

Solution:

Annual consumption (A)
$$= 50$$
 items x 365 days $= 18,250$ items

Fixed cost per order (O) or Ordering cost = Rs. 50

Inventory carrying cost per item per annum = Rs. 0.02 x 365= Rs. 7.30

(C)

$$EOQ = \sqrt{\frac{2x18250 \times 50}{7.3}} = \sqrt{\frac{1825000}{7.3}}$$

Re-order level = Maximum usage per day x Maximum lead time

- = 50 items per day x 32 days
- = 1,600 items

Unit-6Leadership and Motivation

Leadership

- Leadership is an important attribute for the development of organization which can change on unsuccessful organization to successful organization.
- Leadership is the personal quality of an individual who organized the effort of followers & direct their activities to obtain organizational goal.
- So one can say that leadership is the process of influencing the activities of an individual or a group for goal achievement in a given situation.
- Leadership process comprises of 3 factors (i) Leader (ii) follower (iii) other variables

Definitions:-

- By-knouts and O'Donnell- leadership is the ability to exert interpersonal influence, by mean of communication towards the achievement of goal.
- By George R. Tony: Leadership is the activity to influencing people to strive willingly for group objectives.
- "Keith Davis":- Leadership is the ability to parse to seek defined objectives enthusiastically.
- Haimann theory:- Leadership is the process by which an executive imaginatively direct and influence the work of others by choosing and

- attaining specific goals by mediating between the individual & the organization" such a way that both will get maximum satisfaction.
- In general "the leadership is the process of influencing the behavior altitudes activities and efforts of an individual or a group achieving common goal."

Characteristic of leadership:-

- 1. There must be a group of followers: with out followers leadership can't imagine & leader can't exert his authority.
- 2. Leadership is a personal quality of character and behavior in a man to exert interpersonal influence.
- 3. Leadership is a reciprocal relationship between leaders & led both influence each other.
- 4. Leadership is the process of influencing the attitudes activities & efforts of individual.
- 5. Leadership is guide individual or group to active comm.
- 6. Leadership is related to a particular situation at a point of time and under the specific set of circumstances its styles may change time to time.
- 7. Leadership is a shared function:- A leader shares credits, balance, ideas, opinions and experiences everything with his followers.

Importance of Leadership:-

- Leadership is an important factor making organization successful with out good leader organization can't function efficiently & effectively.
- As organization has an objective & created by people. So Activities of the people need to be directed & it is done by leader only.
- 1. **Motivating people:-**As higher motivation, better would be the performance, So a good leader by exercising his leadership motivated he employees for high performance
 - A good leadership is it self a motivating factor for individual.

2. Creating confidence:-

- A good leader may create confidence in his followers by directing them, giving them advice & getting though them good result in the organization.
- Sometimes individual fail to recognize their quality & capabilities to work in absence of good direction.

3) Building Morale:-

- Moral- attitudes of employee towards organization
- High morale leads to high productivity & organizational stability. Through good leadership employee morale can braised high.

4) Better utilization of man power:-

 Leader mobilizes the work force engage them to get higher performance & coordinate their efforts to get maximum out put.

5) Fulfilling social responsibility:-

Good leader is always concerned with the need of satisfaction & dissatisfaction of its work force, provides high standards of living to workers and high productizing, low process to consumers, high national produced increase revenue to good pair & return to invest, so ful filling responsibility i.e. responsibilities towards different section of society is consumer, workers investor & good.

Difference between management & leadership:-

- Leadership may be viewed as a process of influencing behavior of an individual or group with reasons
- It may be own goal or a friends goals & may or may not be same with organization goal.
- But in management there can be mangers only where organized structure create such roles
- A manager has to perform all functions like planning, organizing, directing, staffing & controlling.
- But leadership function comes under directing

- Subordinates are **guided by rules & regulation** enforced by authority so only 60/65% of their capability used.;
- Leadership induce zealous response on the part of followers which insist them to we 100% capability.
- Leaders have followers but mangers have subordinate to obey because of their authority
- Leader have emotional appeal:- Leaders expected to be charismatic people or with great vision they can alter the mood of individual But managers are rational decision maker & problem solves.
- Leader gives emphasis to their follower's need but manager give emphasis to organizational need, though both fulfill organizational & personal need.
- According to peter Drucker, management is to doing thing right leadership is doing right thing.

Leadership style:-

- Leadership style means the behavior exhibited by the leader during supervision of subordinates.
- There may be many dimension of leadership style.
- (a) Power dimension where superior using varying degree of power (authority)
- (ii)Orientation dimension i.e. employee & task indented.
- (iii) Motivational:- All this are leader oriented but there are also followers & situation oriented.

Such classification may not be strict because, in a particular classification some elements of other may appear so, basically style are listed out.

(b) Auto critic (ii) Democratic (iii) free-rein

(i) Autocratic-style/Authoritative/Directive style:-

- An autocratic leader centralizes power and decision-making in himself & exercise complete control over sub ordinate.
- He sets the group goals and they do what they are told. Situation for sub ordinates and they do what they are told.

- He holds over the head of his subordinates by the threat of penalties and punishment.
- The subordinates knows what to do but not away of why.
- There are 3 category of autocratic leader.
- (a) Strict autocrat:- He follows autocratic style in very strict sense, His method of influencing sub ordinates behavior imposing penalty.
- (b) Benevolent autocrat:- Here decision making power is centralize but his motivational style is positive,
- He can be effective in getting efficiency in many situation & some ordinate gets satisfaction under such leadership.
- (c) Incompetent autocrat: some times superiors adopt autocratic leadership style just to hide their incompetence because in other style they may be exposed before their sub ordinate.

Auto critic is applied with success in situate

- Sub ordinate lack knowledge or company goal
- Subordinates are in experienced & lack in track
- The company enforces fear & punishment as access disciplinary technique.
- The leader prefers to be active and dominant decision making.

Advantages:-

- 1) There are many subordinate who prefer to work under, centralize work & strict discipline & derive satisfaction.
- 2) It provides strong motivation and rewards to a manager exercising this style,
- 3) It permits very quick decision making as single person takes decision.
- 4) Less competent sub ordinates have scope to work in organization (as the have less inducement in planning & decision making)

Dis Advantages:-

 People in the organization dislike it specially when it is strict the motivational style is negative.

- There is minimum scope for developing leaders among subordinates as they are more dependent & less individuality.
- Subordinate avoid responsibility initiative & innovative behaviors.
- In autocratic situation frustration, low morale and conflict develop easily. Which is effect organization efficiency?

2) Participative leadership style:- (Democratic/consultative ideographic)

- The democratic leader likes y-theory invites decision making & practice leadership theory by consultation.
- Here authority is decentralized, decision are arrived at after consultation with follows & participation by them instead of taking unilateral decision.
- A demo critic leader gives high importance to work & people.
- The participation style is two type (i) Real (ii) Pseudo
- (I) Real:- Here superior gives credit to sub ordinate suggestion and ideas in taking decision.
- (II) Pseudo:- Here superior appreciate participation theory but do not prefer it in practice.

Participative style is gives good result when

- (i) The organization has communicated its goal & objective to subordinate & they accept it
- (ii) Reward & involvement are used as mean of motivation.
- (iii) The leader truly desires to hear the ideas of his employee before talking decision.
- (iv) Sub ordinate must be knowledgeable & experienced.
- (v) The sub ordinates desire active & time involvement in matters that affects them.

Advantages:-

 Highly motivating technique to employee as they feel elevated when their ideas are given weight in decision making.

- Share responsibility with superior & try to safe grand him also.
- The employees productivity is high because they are party to decision.
- It provides organizational stability by raising moral further leader are also prepared to take organizational positions.

Dis Advantage:-

- (a) Complex nature of organization requires through understanding of its problems which lower level employee may no able to do.
- (b) If interaction among superior & subordinate is minimum than participative leadership is not remain meaningful.
- (c) This type of leadership takes enough time to take decision. It is top job for the leader to provide a relaxed atmosphere to the sub ordinates so that they actively participate in decision making.

Autocratic

- Manager exhibiting this style is rebelled as theory-X teacher
- Leader is auto critic, task oriented & restrictive
- Leader structures the task strives to find out better methods & keeps the employee busy on task.
- Communication is one way
- Decision making centralized and quick decisions is taken.

Democratic

- Manager style rebelled as theory leader
- Leader is democratic, follower oriented, permissive,
- Leader is considerate of his sub ordinates recognizes their needs & respect their human dignity
- Two way communication
- Decision making deconstructed slow process of decision making.

3) Free-rein/Leisser-fair:-

- It means complete freedom to subordinate
- In this style manager once determines, polices programmers & limitations for action & entire process left to sub ordinates
- Delegation of authority into hands of the sub ordinate
- Group members perform every thing and the manager usually maintains contacts with out side persons to brings the information & materials which the group need.
- Such leader avoids power, & the reasons may be lack of self confidence, fear & failure etc.

Free-rein style would seem appropriate under the conduit

- The organizational goal have been communicated well & are acceptable to the sub-ordinates
- The leader is infested in delegating decision making
- The sub ordinates them selves are well trained & highly knowledge, concerning their task & ready to take responsibility.

MOTIVATION

Motivation: The term motivation derived from the word motive. Which may be defined as need, wants, drives or impulses with in an individuals.

Need: more broad sense a psychological desire(e.g. to get status in an organization. Full fill basic need)

Wants: used in narrow sense & includes that desires, which a person can spend money/power to satisfy that desire. (e.g. desire for a car/bus etc)

Definition: "Scott" has defined motivation as "the process of stimulating people to action to accomplish desire goals"

"Mac Farland" has defined motivation as a way which urges, drives, derives, aspiration, striving, needs, direct control or explain the behavior of human being.

"Knoolz & O'Donnell" motivation is a general term applying to the entire class of drives, derives, needs whishes & similar forces that include an individual or group of people to work.

So motivation is a psychological phenomenon which generate with in an individual where as needs are feeling arising in the mind & lack of certain things. Which effect the behavior of the person.

Motivation inspires the employees to give their best to wards the goals of the enterprise.

Characteristics:

one type of need in different – individual produces different behavior.

- Need keep on changing absolutely & their interesting changes from time to time.
- In any situation more than one need operating
- Person motivated in totality not in part, each individual in the organization is a self contained & in separate & his all need are interrelated more over feeling of need is continuous process. So it creates continuity in human being.

Importance of motivation:

Every superior in the organization, must motivate his sub-ordinates for the right type of behaviour, which plays important factor in determining organizational efficiency.

- (1) So, **diagnosing human behaviour** & analyzing them put them irrespective of the nature of the organization is the prime importance of motivation.
- (2) **High performance:** Motivated people put higher performance as compare to other according to William James. Motivated people worked closed to 80-90% of their ability.
- (3) Low employee turn over:- Motivated people stay in the organization & their a absenteeism is quite low. So, indirectly it is saving, money and time of the organization.
- (4) **Acceptance of organizational change:-**Organization may face change in technology value system, culture. So, it has to cope with that change.
- ❖ When such changes are introduce in the organization there is a tendency to resist this changes by the employee. It people are well motivated then implementation of changes are easier & they accept such changes.

Nature of motivation:-

- ❖ Motive is internal to man:- Motivation can't be seen only through the behavior one can feel.
- ❖ A single motive can cause different behavior. (A person with single desire to become prestigious may join politics, additional education, change its appearance.
- ❖ Different motive can cause single behavior:- It a person buy a car, his buying behavior may cause by many motives i.e. color, price, mileage.
- Motive comes and go:- Motive arise at a point of time may not remain with the same intensity at other point of time.

(A boy concern about his dress & hair at adolescences age may give more attention to health & education in youth stage)

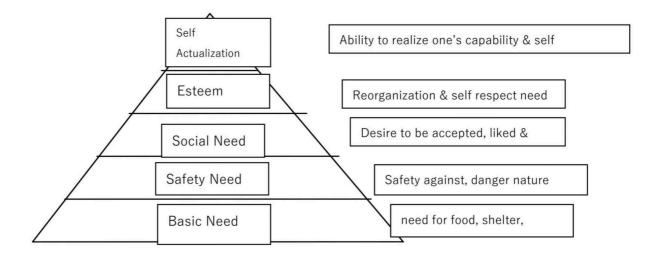
Theories of Motivation: The theory of motivations is basically to find out the answer of the question relating to what motivate people.

Human being complex in nature motivational factors are for different person as well as it depend on time, places surrounding & circumstances. Various theories have been developed by eminent authors on motivation.

1. Maslows theory of need hierarchy:-

A.H. Maslow suggest/find out/advance there importance proposition about human behavior.

- (i) Man are wanting being: Their needs are unlimited & continuous. As soon as one need is satisfied another appears in its place. The process is un ending & this keeps man to work continuously.
- (ii) Fresh needs can motivate person to work:- A satisfied need is not a motivator of behavior only those needs which are not satisfied are capable of motivating individual.
- (i) Man's needs have a hierarchy of importance: According to him man's needs are arranged in a series of levels.



The lower level needs have priority over higher level

Needs can be broadly two type -:

1. Primary needs

2 Secondary needs

- a.) Basic Need b) Safety need
- a. Social need
- b. esteem need
- c. self actualization.

1. **Physiological need**: These are the basic need & are essential for every day to remain alive. Such needs are food, shelter, cloth, water.

These needs motivate worker to do work & earn sufficient amount of money to fulfill them.

2. **Safety need:-** (Security need) Security need arises when the basic needs are fulfilled.

- The needs arises because most people thing about future as much as they think about present.
- Once people achieve sufficient food, shelter, cloth. They protection against danger, In work place individual, views these needs in terms of safety working condition job security. Increase salary etc.
- 3. **Social needs:-** When an individual primarily needs fulfill then social needs become an important motivator of his behavior,
 - Man wants to live with respect in the society. He wants to maintain relation with different type of , group of people, because man is a social being & can't live alone.
 - In an organization workers find satisfaction through inter personal interaction acceptance by other i.e. belonging to informal groups.
 - Even if a person getting social need fulfill with out satisfying primary needs/he may become resistance, violent & non- cooperative.
- 4. **Esteem need/ego need/status need:**These level of needs are related to self respect and receiving respect and receiving respect from others for accomplishment as well as developing self confidence and prestige.
 - They are expressed in an individual's desire for strength for achievement for mastery.
 - ❖ They work to earn skill; they take pride in maintaining high performance, standards and find better way to do the job.
 - This involve other opinions and includes such thing as desire, prestige, status, reorganization, dominance importance.
 - Satisfaction in esteem need not always obtained.
- 5. **Self actualization needs:-** It is the need to maximize ones potential what ever it may be.

❖ Those who have strong realization need to devote much of their energy skill and potential to develop their creative potential.

❖ Self actualization work differently in each individual i.e. one want to be an ideal teacher another may be good manager or develop himself realization need mean they like to perform in the work (i) challenges (ii) permit them to use innovative approaches (iii) allow them to set their goal (iv) develop their creative potential.

A man with high intensity of achievement need will be restless unless, he can find fulfilment in doing what he is fitted to do.

Maslow said these need as the desire to become more and more what one is to become every thing that one is capable of becoming.

Maslow suggest that the various level are interdependent, over lapping since one need does not partially satisfied in each area.

Even though a need in satisfy, it still influence behavior of individuals due to inter relationship

This theory gives an idea for the understanding management task in relation of human resources.

Management at all level must be sensitive to the changing needs of sub ordinates/individuals to provide best atmosphere for productivity and satisfaction

Demerits:-

Maslow's work is the pioneer work in study of motivation. It has certain demerits like

Most of human needs are recurring and never satisfied

Most of the needs co-exist and there is no such hierarchy of needs.

The self actualization need is theoretical. No person can ever know his maximum potential.

-Herzberg's two factor motivation theory:-

Two factor theory was proposed by Fednick Herzberg (U.S.A.) He interviewed 200 engineers/accounts of different companies about their hob in which they felt exceptionally good/exceptionally bad.

Form the response of engineers and accountants. He identify some suggestion. Which is commonly known as two factor theory, according to him?

- (a) The factors- that are present where job satisfactory is produced are distinct from the factors that lead to job dissatisfactory.
- (b) The opposite of job dissatisfaction is not job satisfaction.
- (c) The opposite of job satisfaction is not dissatisfaction he also suggest two sets of factor (i) **hygiene**, (ii) **motivator**, responsible for job satisfaction or dissatisfaction.
- i) **Hygeine/ maintenance factor**: Factors which did not motivate the person. When present in the job but their absence causes dissatisfaction.

These factors prevents dissatisfaction and sickness

- (i)Administration/ company policy (ii) Supervision (iii) salary (iv) working condition (v) status (vi) inter personal relationship with subordinate (vi) security (viii) relation with peers (ix) relation with supervisors (x) personal life
- (ii) **Motivator:-** The factor which are concern with motivation is known as motivator.

These factors are (i) challenging works (ii) responsibility (iii) recognization (iv) Advancement (v) advancement

Demerits:- Herzberg theory was criticized for :-

- (i) This theory did not propose any measure for assessment of satisfaction
- (ii) The theory did not consider situational factors
- (iii) Satisfaction and dissatisfaction are subjective view of respondent
- (iv) This theory explain basically job satisfaction not motivation.

COMUNICATION

An organizational communicational objective can be fulfill by coordinating, integrating activities of individual working their. In an organization individual are performing different activities which are interrelated the working and maintaining of this relation is possible through the communications in general it provide foundation for human interaction and also helps in transmitting information facts ,felling And ideas there by making the coordination effort possible. If the organization is complex one than their large number f employees are engaged degree of specialization and division of labor is high so coordination among them is more necessary which can be achieve through communication only.

Defination- derives from a Latin word comunis common,

"It is the process through which two or more persons come to exchange idea, understanding among themselves."

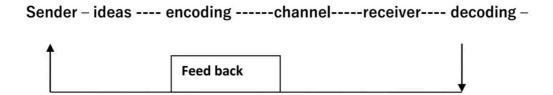
It has two aspects **1.** There is some thing which transmitted facts, feeling, ideas etc implies that there must be a receiver. **2.** The communication emphasis the understanding element sharing of understanding would be possible only when the person to whom the message is meant, understand it in the same sense. in which the sender of the message want him to understand.

Communication involves something more mere transmission of message and reception of message .the correct interpretation and understanding of message is important from the point of view organizational efficiency.

Communication process-

John Kottler has defined communication as a consisting of a sender transmitting a message through the media to a receiver who responds.

But a dynamic interaction both affecting and effect by many variable so there is no unanimity among various thinker and author. But a communication process may involve following steps



• **Sender (source)**-the person who initiate the communication in an organization. He is the person with information, need or desire. the with out reason or desire the sender has no need to send a message ,the manager communicate information to the members of the department.

- **Ideas** It is the subject matter of communication this might be opinion, attitude, felling, views, suggestions, and information
- **Encoding** since subject matter is abstract and intangible transition required the use of symbols such word action gesture picture.

Generally sender chose symbol, word, gesture, for the message believing that those have the same meaning for receiver.

The process of converting subject matter into such symbol is known as encoding.

- **Channel** these symbol are transmitted through certain channels e.i. radio, telephone, air etc. the sender must choose appropriate channel for communication to make more effective (e.g telephone conversation would be an unsuitable channel for transmitting a complex engineering diagram fax, mail may be appropriate one.
- **Receiver-** he is the person to whom message is meant for .receiver may be a single person or may be a large number of receivers.
- **Decoding-** It is the process by which a receiver interpret the message and translates it into meaningful information. it is a two step process 1) the receiver must perceive the message 2) then interpret it. Decoding is effected by the receiver s past experiences, personal assessment of symbols and gestured, mutuality with meaning of sender. in general the more the receivers decoding matches the sender intended message, the more effective the communication has been.(e.g one manager asked a subordinate if he would like to work overtime on Sunday, but earlier the person had made special plan for the Sunday he interpreted managers offer as demand or canceled earlier program, but in reality manager meant that there were number of subordinates, but he thought he would appreciated an opportunity to earn extra income.
- Noise- It is the factor that confused or otherwise interferes with communication. it may be internal or external (when disturbed by other sound in the environment). Noise can occur at any stage of the communication process. it may occur during passage through the channel ,encoding or decoding.
- Feedback- Feedback is necessary to ensure that the receiver has received the message and understand it in the same sense as sender want

. it is the reversal of communication process in which a reaction to the senders communication is expressed.

ONE WAY AND TWO WAY COMMUNICATION-

One way communication- The sender communicates with out expecting feedback from the receiver (e.g polices, statements) .It is less time consuming, less accurate but more orderly.

Two-way communication- this exist when receiver provides feed back to sender (e.g making suggestion to subordinates receiving question). Some cases one way communication is adequate while many case two way communication is essential to attain clarity and commitment of employee.

TYPES OF COMMUNICATION-

The subject matter of communication i.e message are intangible in nature so their transmission required certain symbol which may be 1) VERBAL 2)NON-VERBAL

VERBAL-COMMUNICATION- When subject mater of communication express in term of words.

- ORAL-COMMUNICATION- Here sender and receiver exchange their ideas
 through oral words either face to face communication or through any mechanical
 devices. Oral communication is helpful in face to face communication where
 person can exchange their felling and clarify any doubt in communication. Here
 interchange of information is speedy and completely.
- WRITTEN COMMUNICATION- Communication in written words, graphs,
 diagram, pictures etc e.g letter, circular, note. It can be store for further
 references, communication efforts may be minimized by simultaneous
 communication to various points such as through circular. Communication takes
 place between distantly placed party with out much cost.
 Demerits- It is very time consuming and great chance of communication being
 misunderstood.

- i) The communication flow with in the organization where two parties at the different managerial level is known as inter-scalar/vertical communication.
- ii) When communication takes place between two person of same hierarchical level it is known as horizontal or lateral communication.

i) Inter-scalar/vertical communication

a) Down ward communication:-

- Down ward communication within the organization flows from a superior to subordinate either in the same line of command or in the different one.
- Such communication stands a great force of controlling, influencing of organization members.
- People at lower level have a high degree of hear & respect towards such communication.
- (e.g. order, instruction, direction about understanding of job organizational policies & procedures)

b) Up-ward communication:-

This communication flows from a subordinate position to a superior position.

(e.g.) sub ordinates work performance, feed back of understand of order & instruction, opinion, attitude feeling, suggesting new ideas etc.

ii) Horizontal-communication:- (informal communication)

- It is the how of information between persons of the same mechanical level, line & staff.
- (i.e.) communication with peers, in addition to providing task coordination also furnishes emotional & social support to the individual)
- Creation of various departments in an organization creates co-ordination problem. Which can be solve through horizontal communication.
- This communication helps in problem solving, developing inter personal relationships with peers.

Communication Barriers:-

- The factors which obstruct/impede the flow of communication in the organization are the barriers in communication.
- There are numbers of communication barriers which abstract flow of communication.

1) External 2) organizational 3) Personal

1) External:-

External barriers may affect communication in any content, such barriers may be in two form .

Such barrier may be (i) Semantic barrier (ii) Psychological

(a) Semantic Barriers:-

Semantic barrier are obstructions cause in the process of receiving & understanding of message during the process of decoding & encoding ideas & words.

- These barriers arise from the linguistic capacity of the parties involve.
- (i) **Badly expressed message**:- lack of clarity & precision in a message make it badly expressed such as poor chosen empty words use of phrases, jargons, inadequate vocabulary lack of coherence, are some common founts found in this case.
- (ii) Faculty translation:- every managers receives communication as well as send information to peers subordinate & superior the must translate in to language suitable to each. Hence the message has to put into words appropriate to the frame work in which the receiver understood so faculty translation lead to inefficiency & heavy cost
- (iii) **Specialist language**:- some times technical persons & special groups develops a peculiar and technical language of their econ. This ereats communication barrier as receive ignores such type of language.

(b) Emotional or psychological barrier:-

- It is the prime barrier in inter-personal communication
- The importance of a message depends upon the emotional or psychological status of both partials involved.

- In every message there is a meta-message what one gets out of a message when decoding
- To getting a meta-message the emotion or emotional status. of the wavelength of communication.
- Offer these barrier are the filter paper others there by making communication in adequate.

Some evaluation barriers are:-

(i) **Premature evaluation:-** It is the tendency of prematurely evaluating communication, rather than to keep an uncompromised position during the interchange.

Such evaluation stop the t transfer of information of the sender feels a sense of useless

- (ii) **In Attention**:- The pre occupied wind of receiver & the resultant non-listening is one of the major chronic psychological barrier,
 - It is common phenomena that people fail to react bulletins, notices, reports
- (iii) Loss by transmission & poor retention:- when communication passes through various revels in the organization successive transmission of the solve message are decreasing accurate. i.e. in oral communication 30% of information lost.
 - It is shown that people retain only 50% of the information they gets.
- (iv) **Distrust of communicator** it arises out of ill considered judgments on illogical decision or
 - Frequent. Due to this receivers action become delay & unenthusiastically
- (v) Failure to communicate:- many time manager fail to transmit the needed message this might be because of laziness of sender or assuming that every body knows or bogging information.

(2) Organizational barrier:-

- (i) **Organizational policy:-** organizational policy is overall guideline to every person working in the organization how he is normally expected to behave.
 - It has to be interpreted by top order manager if it is not supportive to the flow of communication in different directions communication flow would not be smoothly & adequate.

(i) Organizational rules & regulation:-

- The rules may restrict the flow of certain message and may leave many important are and may leave many important one.
- Communication through proper channel is specified way prescribed by these rules delay it and works. Against the willing ness of persons to convey the message.
- (ii) **Status relationship:** placing of people in superior & sub-ordinate compositing in formal organization structure also block the flow of communication i.e. particularly in up ward communication.
 - Greater the difference between hierarchical positions in term of their status greater would be the possibility of communication barrier.
- (iii) Complexity in organizational structure:- In an organization where the are a number of managerial levels communication gets delay.
 (i.e. in case up ward communication people generally do not like to pass up the advance criticism either or themselves or of their superior)

(3) Personal Barriers:-

- As communication is basically a interpersonal process so sender & receiver to this process exert important influences on its operation.
- (A) Barriers in superior:- (in up ward communication)
 - (i) Attitudes of superior: It attitudes of superiors towards communication in general is unfavorable. There is a greater possibility that ménages would not flow adequately.

- (ii) Fear of challenge to authority:- manager generally try to with hold the information coming down. The line or going up as frequent passing of information may disclose their weakness.
- (iii) **Ignoring communication**:- come times superior deliberately ignore the communication from their sub ordinate to maintain their importance.
- (iv) Lack of time: superior are overburdened with the work & they have little time of talk to their sub ordinate
- (v) **Lack of awareness:** some times they may lack the awareness about the significance & usefulness of communication in different direction.

(B) Barriers in sub ordinates:-

There are various factors which have been traced in the subordinates that adversely affects their active participation in communication. Some factors are (i) attitude (ii) time availability (iii) Awareness but besides this common factor, there are also two important barriers found in sub ordinates.

(i) Unwillingness to communicate:-

If a sub-ordinate feels that he is likely to be adversely affected by a particular piece of information to his superior. He would not will to supply it.

- It any unfavorable happening or if its supplication is way so as to protect their own interest.
- (ii) Lack of proper incentives:- lack of motivation to communicate also restrict them to communicate upwards
- Rewards & punishment system is responsible for it
- Even if a good suggestion didn't given any attention from the organization he would not convey it.

Methods of overcoming the Barriers:-

- Co-ordering the importance of effective communication in the successful functioning of business organization.
- It is essential for the management to over come these barriers.
- Though all barrier can't eliminated, yet suitable managerial action in this direction can minimized the effect of these barrier.

Making communication effective:-

Various measures discussed earlier will be creating condition for effective communication. But the communicator may take some specific steps to make it effective in a given condition.

- These are the guidelines for making effective communication.
- i) Clarity in idea:- sender must be quite clear abbot what he want to communicate.
 - ii) **Purpose of communication:-** Every communication has some purpose the basic purpose of any communicative being to get behavioral response from the receive of the communication.
 - iii) **Empathy in communication:-** The way for effective communication is to be sensitive to wards receiver needs feelings, perceptions this is the empathy in communication.
 - i.e. projecting one self into the view point of the other person.
 - When sender of the message looks at the problems from the receiver's point of view many of misunderstanding is avoided.
 - iv) Two way communication:- Two way communication being two mind together,
 - It involves a continuous dialogue between senders as receiver.
 - It is fact that for successful of organization up ward communication is necessary.
 - v) **Appropriate language**:- It the words are used, the language by receiver.

- Technical terminology & specialist knowledge should be avoided.
- Use of repetitive language with which the receiver is familiar makes communication simple.
- vi) **Credibility in communication:-** effectiveness of managerial communication depends on credibility or believability. Sub ordinates obey the orders of the superior because has demonstrated through his competence that he is any for trust.

Distending:- communicator has to good listener by this is giving chance to other to speak hot gather information for further communication.

Valore Culture, TOM & Sabely

Human relationship and pertormance in Organisation

It sognities the relationship that should exist between the human beings engaged in industry. It human relation in the relationship lectures human relationship lectures of the Organization. It incomporates management employees, employees employees crelationship. It also enganizations human resource to Outsiders (such as clients, suppliers). healthy human relations lead to increased Preoductivity and efficiency. It also plays crucial rule in growth and success of the Organization.

(its transport historians -

visit from the same war activity

Employee productivity

Froductivity is shown to increase when relationships between employees who ever and amployees is positive and supportive. Relationships between employees who ever dependent upon each other also directly inbluence productivity. Individuals are more loxely to produce quality results when they are treated with respect and the made to beer as though they are being recognized for making a positive contribution to the Company's success.

Employee Motivation

Motivation is directly tied to the idea of increased productivity. It as employee feels that his needs will be neet by sperbonning his job tacks, he is more likely to be motivated to do them. For example, when a manager secognizes an employee's work perbonnance by congratulating him for an Outstanding job, the employee beels appreciated and valued. By having his extern needs met, he is more likely to repeat his current behavior.

Grood Communication and interpersonal Skills promote beelings of goodwill between individuals and companies. It creates a perception of the individual as lither being a superson, adequate on a foor perbonner. Even it as individuals technical skills are skirtful, it he is unable to cultivate solid irelationships with supersons and cowonkers, he may be viewed as chomsone who we not a possible Contribution.

When employees and Customers are treated with respect, they rave mone likely to teel good about maintaining an existing business relationship.

Twinover in other linked to poor relationships between employees and managers. Establishing a Sense of mutual value and trust creates an environment where employees and Customers feel as though they matter.

Employee Collaboration and Workplace Culture.

Human relations is the workplace are a major pair of what makes na business work. Employees must frequently work together on projects, lominuricate ideas and provide motivation to get things done. Without a stable and inviting workplace Culture, difficult Challenges can axise both in the logistics of managing employees and in the bottom line.

She quality of roomsplace relations is critical to employee retention. Employee retention may seem trivial - especially in a workplace that us used to ra high twoover - but managers must remember that twoover is financially very Costly. Every new employee requires a substantial investment of time and energy in their recruitment and training. In addition, severing lies with old employees can sometimes bee challenging, especially it the circumstances rare not particularly amicable. Making sure quality employees remain interested and engaged in the louiness requires patience, Compassion and flexibility, but can actually make the requires patience, Compassion and flexibility, but can actually make the leuiness more financially sound.

The modern lewiness environment often rewards businesses that are able to quickly develop products that meet changing Consumer needs. In some to quickly develop products that meet changing Consumer needs. In some industries— such as technology, for example—employees rability to come up with industries—such as technology, for example—endoyees rability to company's success effective new ideas is often the difference between the entire company's success effective new ideas is often the difference between the entire company's success and facture. Employees creativity is often dependent on their abolity to and facture with other employees and whare ideas. Weithout quality communicate with other employees are less likely to be able to develop workplace relationships, employees are less likely to be able to develop and whare the wolutions that a business needs to securive.

Dopulating your workborne with a diverse group helps you provide sales rend service employees that can etterlively interact with Customers from different Cultures. Additionally, some Customers in Certain Communities may not speak English as a promary language, which markes employees bluest is multiple languages a plus.

Relation with peens, Superior and Subordinates when the peen, Superior and It is always an experience to interact with the peen, Superior and Subordinate groups. All the three groups of people give a different beel and learning, when we interact with them. At the three groups are important and Very much existent in all reveals of libe. Whether it is family, office, friends, mentors, teachers, bosses, acquaintances, etc. all of them are typically divided into three categories.

The first rategory will always be peers because we viespond & viciprocate to them very easily of very forstly. They are typically the Same level as us lither in intelligent quotient on status on family structure on in any other way at par with us. We normally lend to be comboutable with them in terms of talking and interacting. One more reason of a person being comboutable with peers is they have somilar problems and they empathixe very well with each others. For example colleagues in office, favends, Cousins, acquaintances, Social Circles, etc.

The second category is superiors. The teachers, mentons bosses, family etc. generally fave in this category. They are the ones who are higher than is as far as the Knowledge on experience on intellect quotient or relationship goes. They expect a certain kind of respectful treatment from us, while we deal with them expect a certain kind of respectful treatment from us, while we deal with them expect a certain kind of take time to interact with them directly; more so, when they also have an expectation beautier to break from fauticularly because the ones from whom you learn effortlessly because we with us. They save the ones from whom you learn effortlessly because we know that they know more than us. For example uncles, aunts, bosses, bosses of bosses, menton, aged Consultants; senson positions in any way, etc.

The third category opens up the shoope of being a mention to other, as used by taking work from them on helping them to cope up. They are lesser like by experience, knowledge on relationship read that's why we beel good dealing with them rand sometimes even show them obt our seniority. They are the with other need our reciprocation for their removable but them one they are in to them are important; it we have to take work from them on they are in the social cincles on face in as a team to rachieve targets in probassional fronts. Subondinates: fronts.

TRM Concepts

Total Quality Management - (TRM)

Total devality Klanagement in mainly Concerned with Continuous improvement in the in all work. It is a long term planning. It is the Consistent improvement in the quality. It is a married to three quality. It is a never ending process. Total Quality Management Consists of three words; Total, Quality and Management.

Total - Make up of the whole.

Quality - Degree ob excellence na product on Service provides.

Management - TRM is the out of managing the whole to achieve excellence.

TRM covers are the iset reales, originations, guidelines and principles that contribute in improving the Organization Continuously. It is a Continuous process of improvement for individuals, groups of people and the whole Organisation. TOM integrates all the fundamental management techniques, existing improvement etitoits, and technical tools under of disciplined suppressed. Total Quality Management (TRM) in rei management rapproach for an Organization, Centered on quality, based on the participation and Commitment of one the internal rend external customers and raining at strategically long-term success through Customer vatisbaction, and benebits to all members of the organization it is indicated the sensions will

Characteristics/Nature of TOM

TRM Starts from Top Management > The quality concept is initiated by the top management. Only the top Management Can create rein environment that develops team-Orcvented environment and creates quality Oriented Culture that can prevent problems and Continually improve.

It is a steady process -It produce quality product and service is not an easy Job. Sometimes it takes years to give the derived results. All the employees have to work Consistently as a team in one direction to improve an the processes in the Organisation. It is a part of Streeting planning and Thinking ->
Tary folicy is a long term planning. The quality policy must be the part ob Strategic planning to get the desired viewelts. It is Customer Focused Oriented ->
The end viewest of TRM is complete satisfaction of Customers by gaving them quality products and services. It is possible only when TRM programme Total Seculty Municipality - (TRM) is Customer Centric. Success in terms of Standard quality is possible only when the Organisations has a culture of team formation and the employees work on teams and give Teams can be formed vertically and honizontally, when top management is involving the lower level employees it is vertically and when the different departmental employees are involved then it is honizontally (employees of marketing Sales, production and finance departments sere working for critical and Complex projects). their marinum. Complex projects). It is Related with Consistency Improvement of Quality -> To deliver quality products rend services us not an easy Job. All the processes have to be developed rand Standardised by Consistent improvement. Every Employee is involved in Quality Improvement Aspect -> Au the employees internal as were as external rove involved in the torn Internal employees include rall the employees included from top to bottom and enternal employees are suppliers, banks and other institutions which are involved in the Tem process. Every Employee is Responsible for the Success of TOM ->

It am the employees are determined and Committed for the quality froducts and Services, then only quality could be delivered.

The TRM practices followed by Multirational Companies All the MNC's like Sony, Toyota, Xerox, Motorcola Louow the Total Quality Management practices. The Salvent features of Teny experioach followed by the -> Whe Companies create a Sense of an enveronment of mutual transf, wespect and dignity. best Companies are as following; dignety. - The management act immediately on new ideas and suggestions.

- The Companies are meeting and exceeding customers suggestions expectations on Invite. -> The Companies hear and leavy from the dissatistized/unhappy customers and responsible for Complete Customer Natistaction. -> The Companies seve Committed to their both internal res well as external employees. They know the value of workers involvement and intensive training. -> The companies develop the teams to have broad decision making formers and suponiebolities. -> They apologize for the Complaints. -> The Companies Know that labora-management relations could do more for quality and broductivity. quality and productivity. → The Companies empower their employees to make them responsable.

→ The Companies Implement Statistical process Control and mionetos debect orates. Quality management includes and the functions of the Organisation to design and provide quality products and services which fullists the needs of the tustomers and generate uttemate satisfaction. The Core concept of quality management is quality planning, quality Controlling and quality improvement. The traditional approach of quality menagement covers typical inspection aspect and the 'do it right from the forst time' concept.

The first and foremost istep in quality planning is to plan and know who your customer is, and what we his needs and wants. After toplinising the frieduct on service beatures, the Organisation designs and develops the processes for that the one service. The next istep is to istandardise the processes to that the products on services can be standardised. The Consistent production of desired quality products and services negative high involvement 4 Contribution of employees in planning.

It is re very important step in quality management. It dequores extensive, broper and Consistent training of employees so that errors can be controlled. Inconsistency in products and services can be revoided by using statistically

process control techniques.

The final step in the quality management it quality improvement is mainly concerned with continuous improvement in rue work. It is never planning. It is the consistency improvement in the quality. It is never ending process.

Quality System

A quality management bystem (QMS, alternatively "quality system") is a mechanism for managing sand continuously improving core processes to a achieve maximum customer satistaction at the lowest overall cost to the Organization". By bringing together philosophies, standards, methodologies and tools, the QMS helps an Organization achieve its quality—sulated goals.

A quality system is a specific implementation of quality philosophies concepts, istandards, methodologies and tools, for the purpose of achieving quality-vulated goals. When implemented, a quality system will be unique to an organization. Its instructure, however, may be somilar to quality systems in the other organizations (for example, of all 150 9001 clauses are addressed).

The International Organization for extandordization (150) fescribes a minimum standard for the elements of ra ams through 150 9001:2000. Components of a Quality system (This part det not Change in 150 9001: 2015). No build an 150 9001 Comploant QMS, you need to: -> Identity and map processes (administrative, Organization, Operational).

-> Determine how processes are interrelated (that is, identity and map

Arose-cutting activation that cross-cutting activities that span organizational boundaries). -> plan for Operations and Contract of these processes, secognisions and has Conditions and Specifications for control of each of the processes may be different from one another, -> plan for dynamically allocating resources to accomodate the demands of -> Apply systems theirwing and describe the environment that your inter dependent processes were embedded within, -> Identity mechanisms to measure, monitor, analyze and continuously improve the processes in the context of the Organization rend its environment letablish an Action plan for proactively deploying the ans through the Organization and Ensure that Records one kept that track compliance to the QMs and changes that are made to the ans ofself with the course interior Satety
The condition of being sate from undergoing on Coursing hurt, injury, An accident (inclustrial) in a Sudden and unexpected occurrence in the industry which interrupts the Orderly progress of the work. According to the Factories Act, 1948: "It is as occurrence in an industrial establishment Causing bodily Enjury to a person who makes him unbit to Mesame his duties in the next 48 hours. In other words, accèdent is an unexpected event in the course of employment Which it neither articipated mon designed to occur. Their, an accordent inter. unplanned of uncontrolled event in which an action on reaction of an object, is hubitance, a person, or a readiation results in personal injury.

What are the main cause of Industrial Accidents?

There are a number of bactors that vear lead to industrial accordents, including everything from improper litting techniques to mishandling hazardous materials. Below rare some common causes of accordents in the workplace.

Environmental Causes (Unsabe Condition)

Unsabe working conditions are the biggest cause of accidents. Accidents Which Occur from environmental causes ruber to those workplace acceptents that happen because of the working envorconment. The envorconmental factors can be both natural rend man-made such as workplace design. Common envoronmental Causes of accidents include:

- Poor lighting Low vosibelong is a Common cause of slips, trips and falls.

It a workplace is too hot, Overheating can occur. It the workplace is too cold, frostbote or hypothermia can occur. - Ambient demperature

Breathing issues can develop it a workplace has four ventilation and for Air pollution cure pollution.

The sound in a workplace can cause injury to a worker hearing. Sound pollution

Mechanical course of Industrial Accidents

Mechanical causes of industrial accidents are factors that rubber to machine on equipment failure or breakdown. Generally, with proper maintenance and sately processes in place, these types of raccidents rare preventable. Common mechanical Causes of accidents include;

, Broken on damaged machineparty can be easily broken on damaged it made of from quality metal. . Power failure

total on faities fower failure can lead to serious injury.

· firce one explosion -Cooling failure on a small spark can lead to a nuchanical force on explosion.

. Fair wear and tear -The older machine, the more wear and teat on the parts which can lead to a higher of mechanical accident,

Human factors that Cause Accordents Accidents Caused by human factors rebers to incidents in which the Common human factors that cause industrial receidents include; . from housekeeping - An unkempt work space can lead to uslips, trieps, and falls. · Fatigue - When a body is tired, injury is more likely to occur. · Overexertion - Overexertion injuries are the most common type of workplace . Stress - Workers who we istressed are often more distracted and of greater rick of injury). vick of injury. body functions Drame. body functions properly. · Improper litting - Lower back strains and shoulder injuries are common among workers to ho use improper lobling techniques. Tips for the prevention of Industrial Accidents When it Comes to industrial receidents, incidents reve melmost ralways freventable when proper Sabety measures and employee training one in place. tips for avoiding industrial racidents include; -> Developing an employee Satety plan with feedback from all level employees > Requiring monthly employee training and promote sabety swareness with an internal slatety Commettee. -> Focusing on skell development and education of all employees. -> Ensuring Supercrisons are monetoning and reporting on the progress of all sabely measures. -> providing revenue for employees to share sabely concerns read ideas for I Establishing va Blanned maintenance Schedule for all machines - daily, weekly, monthly based on manubacturer suggestion. - Duickly repairing and addressing all detective on broken machine parts -> Testing all equipment bebore use -> Creating a regular inspection schedule rand put mechanisms in place to ensure et ils endhere to while there is no absolute guarantee that industrial

accidents will not occur within any gives company, propose planning and training are two keys to breatically reducing the orisk of incident.

Major Accidents on the last Decade:

Bhopal, December 1984: In world's worst chemical disaste, a methylissocyanate gas leak from the Union Carbide plant in the City Kalled Over 4000 people. Thousands Subtered irreversible health damage.

The Company's primary objectives we to ensure the sabely and health of our Employees, and to protect Company property. Our goal is to provide state and healthbul Working conditions for tell Company Employees.

Sabely scules have been developed with input from Supervision and Employees. While held to a minimum, the rules address behavious and work practices that can.

lead to accidents and injuries.

Each Employees should become familiar with and Follow General and Departmental Sabely rules. Supervisory must enfonce sabe work practices through struct radherence to sately rules.

Most accordents can be prevented it everyone uses assigned isabety equipment and Follows the established Satety rules. To operate a late and Successful business, we

must work ru a team to THINK SAFE, WORK SAFE, AND BE SAFE.

Greneral Satety Rules

1. Keport au work injuries and illnesses immediately.

2. Report all unsabe Acts on Unsabe Conditions to your Supervision

3. Use seat betts when on Company business in any volicles.

4. Firearms, weapons, on explosives are not permitted on Company property.

5. Use, possession, isale on being under the inblilence of illegal drugs, mixuse of prescription drugs and/or alcohol is not permitted on company property

on whale "on duty"

6. Only authorized and trained Employees may vapaon on adjust machinery and equipment. Lock and Tog Out procedures must be followed before removing any machine quards on working on powered machinery and equipment. Replace au guards when the job is completed.

7. Only qualitied of trained employees may work on on near Exposed Energissed Electrical forte on Electrical Equipment. Follow Electrical Sabety rules when

atoming with electrically powered machinery and equipment.

8. Only authorized and trained Employees may enter a posted contined space. Au contined spaces will be posted contined space-permit required. Entry in rallowed only abbee permits were properly issued.

9. Only authorized and trained employees may dispense on use chemicals. It is your vresponsibility to know where SDS's (Satety Sata Sheets) are located and

that they are available for your use and rieview.

10. Keep work areas clean and ourses clear. Do not block emergency equipment

11. Wear and use the prescribed personal protective sabety Equipment. This includes boot protection, head protection, gloves etc.

12. Smoking us permitted Only in the designated "Smoking Areas".

Porsonal protective Equipment (PPE)

What is personal protective equipment?

Personal protective equipment, commonly reberred to as "PPE". It is ran equipment work to minimize exposure to hazards that cause serious workplace injuries and illnesses.

These injuries and illnesses may viesuit from Contact with chemical, radiological,

shysical, electrical, mechanical, on other workplace hazards.

personal priotective equipment may include iltems isuch as gloves, isabety glasses and shoes, earplugs on mults, hard hats, viespiratoris, on Coveralle, vests and

What can be done to ensure proper west personal protective equipment? All personal protective equipment should be sabely designed and Constructed,

and should be maintained in a clear rend reliable fashion. It is hould for

It the personal protective equipment does not fit properly, it can make the Combontably, encouraging worker use. difference between being isately covered on dangerously exposed. When engineering work practice, and Edministrative Controls are not fearable on do not provide elubtowent protection, employers must provide personal protective 'lquipment to their workers and ensure its proper use.

Personal protective agrépment to know;

- When it is necessary

What kind in necessary

- How to properly put it on, adjust, wear and take it off

- The limitations of the equipment

- proper care, maintenance, useful like, and disposal of the equipment. It PPE us to be used, a PPE program should be implemented. This program ushould endbress the hazards present; the selection, maintenance, rend use of PPE; the training of employees, and monitoring of the program to ensure

et ongoing effectiveness.

brushed production soful must core ?

Intellectual property Rights (IPR), patent, Treademarks, Copyrights

Intellectual property Rights (IPR) rebers to the legal orights granted to the inventor on manufacture product. Inenton on manufacture product.

Nese legal orights grant an enclusive vight on the inventor/manufactures on the operator who makes there use of its his invention/product for a limited point of time.

Ip vights include trade vecrets, utility models, fatents, trademarks, geographical indications, industrial design, layout design of integrated concuits,

Copyright and vielated rights, and new varieties of plants.

Mhere are many types of Intellectual property protection. I fatent is a recognition for an invention that Satisties the Criferia of global innovation, and industrial application. IPR is essential for better identification, planning, Communicalization, rendering, and thus the preservation of inventions on Creativity. Each industry should develop its speciality based on its IPR folicies, management while, Strategies, end So On.

IPR wi a Strong tool, to protect the investment, time, money and abtoret invested by the inventor/creator of the IP, as it gives the inventor/creator on exclusive right for a certain period of time for the use of its invention/ Creation. Thus, IPR affects the economic development of a Country by fromoting healthy competition and encouraging industrial growth & economic growth.

The objective of intellectual property speciation is to encourage the Creativity of the human mind for the laceretist of all and to ensure that the benefits building from exploiting a Creation benefit the Creator. This will encourage breative activity and give investors a reasonable return on their investment in research and development.

The intellectual property right in a kind of legal right that protects a terron's outsite works, literary works, inventions on discoveries on a symbol on design for a specific period of time.

Intellectual property owners are given certain rights by which they land enjoy their property without any closturbances and brevent others from using them, atthough these nights are also called monopoly sights or exploitation, they are limited in geographical range, time and scope.

There are several reasons for promoting and protecting intellectual by, Some of them are; Why promote and protect Intellectual property?

property, Some of them are;

-> progress and the good of humanoty sumain in the rability to create

and invent new works in the foold of technology and Culture.

The protection encourages publication, distribution, and disclosure of

the creation to the public, rather than keeping of a electet.

-> forcomotion of protection of intellectual property promote economic development, generates new jobs and inclustries, and improves the quality

Intellectual property helps in balancing between the Innovator's Interests and public interest, Brovide an environment where innovation, Creativity and invention can blowish and benefit all.

Kinds of intellectual property:

The Subject of intellectual property is very broad. There are many dollerent forms of rights that together make up intellectual property.

INTELLECTUAL PROPERTY MIGHT There are 3 different type of property; 1. Real property - Land, Real estate 2. personal property -> House, Jewellery, Boxe is there is present 3. Intellectual property * Intellectual rubers to a highly developed ebbont On mental ability to think occasion of understand. * Intellectual property means a property created by human brain. It is called intellectual property because it is the product of human imagination, creatority for the oranged. inventiveness. Intellectual property is the creation of human mind like invention, literaries rand arkstix works, Symbol , names, images and designs used in Commerse It is any product of human intellect that in intarville but as value in the market place. The most noticeable detberence between intellectual moperty and other forms of prosperty gives that ntellectual property us intarcable that is it and be deboned on odenstred by uts on Chysical farameter points pations appearous att

- I.P can be defined as a Conceptual on Vonteral formoduce from the intellectual Capacity of a Certain person. For e.g. an author writes a book and an engineer prepares a design.
- Thus ra book, a picture, a design a sum, a music note, the clesson of a product which is the creation of ones mind which is an I.P.
- T.P Created in this way they could usebut for
 - From e.g; a designed created by Someone may bee used for production of goods on a the tread mark created by a Company has a good will in the market.
 - The has an economic value thus economic value must be protected hence the Concept of protection of I.P has been brought in the Breveew of law.

 Antellectual property Right
 - the concept of entellectual property sight emerged as a viewet of globalization, privalization and liberetization—that has been necessated the protection of vights of production, design, that has been design,
 - THE Knowledge created through human lettont is

Ander to Stomulate of promote further Createrity.

* Under TPR Dwner are granted certain exclusive exclusive exclusive sight to a variety of entangible auti such as litracy, musical, artiflic works, discoveries, inventions, Symbols, designs etc.

* These are the legal right associated with

* There are the legal right associated with creative ebbout on Commercial regulation and good will.

A Sheen rights water quards creature of other produces of intellectual goods and wearies by granting Certain time limited right to Control their voices.

matter of trade which can be owned, sold of brought.

* These rights are outlined son article 27 of the universal declaration of human rights which provides for their right to benefit from the protection of monal and material interest cresulting from authoriship of scientific, litracy on Antistic production.

* Mre Emporitance of IP was first execognise of the paris Convention for the protection of industrial property (Di (1883). And the Berne Convention for the protection of literary and artistic work in 1886 both the treaties were administered by the

When important views for the development of IPP is that a person who creates a work as a good sides which he develops has sight and to control the use and exploitation of the sit and prevent other from taking untain, adventise of his obbot.

TYPES OF IP

1. Trademark

2. Copy ought

3. patent

4. Thade secret

5. Industrial design

6. Lay out design for Integrated Concern

7. Geographical indications

8. pootection of New plant variety.

3 Patent A patent in an exclusive right granted for as invention-a product on process that provides a new way of doing something on that offer a new technical Solution to a problem. instaliques and abiving busin - It provides protection to the Owner of the patent for his invention. 13 prinstraturant per instrant is not - The protection is greatled for a climited served generally 20 years. or southers is bottom made presente - patent protection means no one can make use, sold, distribute, on market the invention without the concent of the patent holder. powered of line. -> A patent holder has the ought to decide who may On may not use the patented intermation for the period for which it is protected to -> patent Owners may give permission to are license to other parties to use their inventions on mutually - The Owner may also See his invention sight to the patent. the patent.

to contain the right on it.

Statute, a patent becomes the public property that it becomes available to Commercial exploitation by Others.

Trademark ->
Shis is a clesson of a freture used by Certain
Company for its' specific freduct. > It is generally in a Symbolic Form. -> It may be one on a combination of words letters And numerals.

7 They may comist of drawing, Symbols, 3-D Usigns, Such as shape and packaging of goods. > Treademark protection ensures that the owners Of the mark have exclusive vight to use them On to authorise others to use them in return for - At Melps Consumer to identify and purchase a product for service based on specific characteristics and quality as indicated by life unique trademan.

Anticolly a treademore con valid for not less than 7 years but generally it is for 10 years.

But if can be renewed from time to time. for Certification marks and gives for Compliance withe different Standards. The internationally accepted 150 9000" quality Standards are example of vsuch widely recognises Certification. and Ecolable for product with the reduce environmental impact. A trademoun edentifying and distinguishes the product of Service For person from those of another. . Herce, Creatons otto manter in the safe · Trademary for Cadboury. Cadboury min minimum w more survey of the surport Trademark for Nestle Nestle. Nestle. · Trademark for Noke If also include the sught

Copy right is a form of protection granted to copy wight is a form of protection granted to artist authors, and other Creators for their Original works.

If prohibits other from Copying Or publicing the written materials pictures etc.

He includes literally works buch as nobels, poems,

- places, reference marks, news papers and Computer programmes, felms, paintings, Compositions, photographs Schleptures, technical drawings, advertisements etc.
- Phrases on list of ingredients.
- The Creation holds the exclusive vight to use of authorise others to use the work on agreed terms. Among types of work protected under this law of copy right requires may distribution, communication, and financial investment for their Successful dissementation.
- Hence, Creatons often transfer these vights to Company better able to develope and market the work in return for Compensation in the form of payments and/ to Royalties.
- → This payment have a time limits (other than photograp is for life of author plus 70 years after Creators death.
- -> It also include the vight to Oppose on Changes to the work that would have the Creaton's supertation
- Registration of Copy right is Only optimal approximant and non-negistration does not deprive the author to take civil and Crimonal proceeding against the introloger.

Copyright

Copyright laws great authors, artists and others creations protection for their leterary and artistic creations, generally instructed to as "works".

A closely associated field or "velated rights" on rights related to Copyright that encompass vights similar one identical to those of Copyright, atthough Sometimes more limited and of shorter deviation.

The beneficiousies of related rights are, performers (such as exctores and musicians) in their performances, producers of phonograms (for example, Compact discs) in their Sound recordings, and broadcasting Organizations in their radio and television programs.

poens, playe, reberence works, newspapers, advortisements, Computer programs, databases, films, musical Compositions, Chorceography, faintings, drawings, photographs, sculpture, architecture, maps and technocal drawings.

What are the benefits of protecting Copyright and related reights? Copyright law deals with the protection and exploitation of the expression is a tangeble form

of ideas in a tangèble form.

In the modern would, the law of copyright provodes a legal framework for the protection of the traditional beneficiaries of copyright, the individual writer, composer on writer. Composer on writing.

Copyright acknowledges both the economic and moral rights of the owner. Copyright and releated rights protections an essential component in encouragement

human Creativety and innovation. It is Giving authors, artists and Creatons incentives in the form of recognition and fain economic reward increases their activity and output and can also enhance the results. enhance the vienuts.

By ensuring the existence and entonceabolity of right, individuals and Companies Can more easily invest in the creation, development and global dissemination of their works.

This, in tour, helps to increase access to and enhance the enjoyment ob Culture, Knowledge and entertainment the world over, and also istimulates economic and social development.

Factories Act

The objective of the Factories Act in to regulate the Conditions of work in manufacturing restablishments coming within the debinition of the term "factory" ras used in the Act.

The factories of Act of 1948 came into force on 1st April 1949; It applies to factories, as debined in the Act, rell over Sordia, including the State of Jammu and Kashmin.

| Teatures of Factories Act 1948 |
|---|
| 1 Working hours > |
| Ho adult worker ishall be required fallowed to work is a factory for more than 48 his in a week. There is hould be sa weekly, |
| Factory for more than 48 his in a week. There whould be sa weekly, |
| holiday. |
| 2) Health > |
| - Cleanness on factorey |
| -proper drainage rystem |
| acceptate Lighting |
| - Ventilation |
| temperature |
| - adequate arrangements for drinking water |
| - Subtraint latines of uninals should be provided. |
| 3 Sabety > |
| -> Machinery should be formed. |
| - in Contined spaces - provision for Manholes of adequate size No that in case of emergency the workers can escape. (4) Welbare -> - Washing facilities Mould be a a DD |
| in case of emergency the workers can example |
| 4 Wellare -> |
| - Washing facilities ushould be provided and maintained for the use of workers. |
| - facilities for driver alone D |
| appliances Matters (total) |
| - facilitées for drying clothing, facilitées for sotting, fant ridge expliances, shetters, rest rooms, Lunch rooms, etc. should be there. |
| _ IF FA 1948 / any rules under act/any provision us violated, it is treated as |
| an plinand |
| - Improsonment (≤1yr) |
| |
| - both fine and imprisionment |
| - both fine and imprisonment— - If any worker misures on explorance/ habety of health of workers/in outlation to directarge of his duties ≥ 500/- fine can be imposed. |
| |

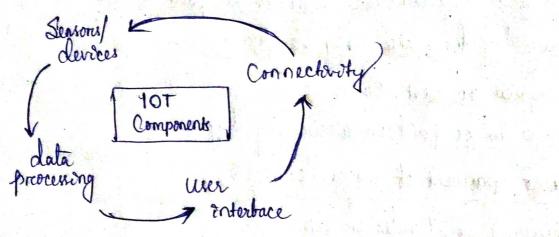
Features of payment of Wages Act 1936 Rules for Bayment of wages (Section 3-6) Responsibility for payment of wages (section 3) by employer. _ fination of wage period (>1 month) time of payment of wages (section-5) - leetween 7-10 days of following wage persod.

In case of termination wages to be paid before expony of and working day from the day of termination. - exemption on Govt. Order. - wages to be paid on a working day Modes of payment of wages (section - 8) - Currency coon/ notes on both - Credit wager in leank account Deduction from ways (section 07-13) - rabsence from duty - damage / loss - Nouveces (house accomodation) - recovery of endrances - payment to co-operative societies & insevance schemes. - Recovery of loans Other deductions (17, Order of court/authority, inwance Schemes) Maintenance of registers 4 records (rectom - 13A)

Concept of 10T

It rebors to the billoons of physical devices revound the would that are now connected to the internet, an collecting of sharing data. en- Smeat bulb, Laptops, Smartwatch, Smartphones, Fotness band letc.

How 10T works



1. Semons/ services

- Gips, Camera,
- Collect data from Surroundings.
- 2. Connectority Collected data is sent to a cloud Intrastructure.

3. Data processing Once date is collected 4 It gets to the cloud, the software perbons foreceving on the acquired data. airs checking Ac temperature on Ac.

4. User Interface Intermation made available to the end user in some way.

Components of 10T Jessone/devices
Networks/connectivity layer it was a second -> security layers (to labe 'data'). which is the first of -> Computer angines - Technology & governance istandards the last will get the territory of much at a special of a -> Intelligent mights & actions For any 10T use ware, the components of the end point we bessensons. Senson capture electric pulse on analog signals which are passed through the 1. Sersons devoces For example, Smert phones of Smart wearables revie equapped with sensons loke exceleremeter, Crynogrope sensons, etc. Data obtained toon these lot endpoints can be used in various domains like human activity recognition, medical stability He. - Based on the use case and sprecosan sugurments serious can be chosen Keeping the following faverneters in mind: - Accuracy of the input readings -> Reloabolity percentage of the inputs - The purpose of the use case, for example, lensons required for a dereperature dependent use case, will differ from use cases based on 2. Networks / connectivity layer In a typical lot ecosystem, venions reve connected with Computation layou and intelligent layous via network on connectority layou. An 10T network consorte of various network components love nouters, gateways, chootches, various network prictocols, etc. Based on the use wase and alomain proper network ontrastructure de needed to be chosen.

3. Security layous The heart of any industry grade lot user whory is 'data'. In a standard the rease, analog on digital sognal is acquired by sensons and the sognal is then converted and an alignal is acquired by In the total flow of data, proper security systems and neethodologies need to be enforced. The data can be compromised in any layers starting from the data acquisition to business insighte derivations.
We can enforce proper security by using strong encryption or various layer of communication, using proper formwore and arti-malware systems etc. 4. Compute lengines The data Collected from Smart devices are Converted and preprocessed to a format on which machine leavining models rave developed. Customers can use any cloud partners of their schoice on develop their own Inbrastine ture to crecute a use case. 5. Technology and Governance Fandards Sensatore intérmation blow over the various Components of the lot ecosystem. - Typical technocal standars: Wi-Fi, WAN, etc. - Network protocol: ATTP, IP, UDP, etc. - Data management standards: ETL, CAP (Los destrubuted systems) etc. - 10T systems need to follow the regulations and quality estandards of respective regulatory authorities and business estandards. 6. Intelligent Insights and Actions Most of the practical and industry-grade but use cases eine intended to derive business insights on actionable recommendations. For example in the heavy manufacturing inclustry, the data obtained from provious machinery can be used to predict the fault of the machine which can help to reduce manufacturing downtime and increase allower !

Characteristics of 10T

The following are the major reharacteristics of the Internet of

Things;

1. Connectivity

With the charge of the IOT, the connectivity of devices has never lever stronger. Connectivity is the abolity to communicate with I share information between two on more devices.

The IOT has created re would where everything is connected, which opens up a would of possibilities for the future.

Connectivity is possible using wired LAN or workeless fechnologies like Wi-Fi, LPWAN, LORA, ZigBee, etc.

2. Identity of Things

Foliatity is the unique reharacteristic of a person, group, place or thing. Every identity has a name and an identification number. The combination of the name and number makes up the identity. This is what helps identity people 4 things on the internet.

Flentity can be used to dostinguish between different devices, give them a name, and allow them to be controlled.

For ex, An IP address of a device is a unique odentitive that supresents a device in a network.

The 10T is made up of interconnected devices that are able to the 10T is made up of interconnected devices that are able to share data with each other. The data from these devices can be used the improve the perbormance of these devices and make them more abbitishent improve the perbormance of these devices and make them more abbitishent. Data is now being collected on the Internet of things. This means that you can now track your tenen, experience, and sleep patterns through is smooth devices such as fother, Apple watch, and sleep trackers.

The Intelligence of tot devoces is the Intelligence of ismart sensory and devoces to isense data, interact with each other of collect a huge amount of data for analysis.

The Internet of things is only as good as the intelligence that goes into it. It you want your lot olevice to be smoot, then you need to make sure that it is always up to date with the latest software and formware.

The lot is on the vise and if is predicted that by 2000 there will be 29 billion devices Connected to the internet. With this many devices, if is important to be able to Communicate with these devices it order to make them work properly. There are a few areas to Communicate with these devices. One way is through a cloud Lervice, a type of software that allows the device to be connected to the internet. Another way is through a gaturary which is a direct that Connects with other devices to allow them to communicate with each other.

The 10t in essentially a network of interconnected devices that are able to exchange data over the internet, often without human interaction. As these devices becomes more 4 more prevalent, the ability to connect them together of build larger networks become easiler.

6. Scalabolity

Scalability in often debined as the abolity of a seystem to grow without affecting its perbormance. Whis ran be achieved by adding more hardware resources on by adding additional software layers to an existing seystem. In otherwords, the system can hardle more users and more data coothout Compromising its perbormance. The 10T needs scalability on order to grow at the pace that it needs to.

7. Anchitecture Common Ecosystem

In the LOT, there are many manubacturers and product that are enough the architecture to support their own derices. With the increase in the number of devices, the importance of the architecture is heterogeneous (abolity to support diverse stechnologies, protocols, and devices).

After auchitecture is mostly occapionable for making where that the devoces work together and communicate with each other. It also is a key component in ensuring that the devoces do not interbere with each other.

Whe tot his growing at an exponential reals, which means that there were more and more devices and appliances being connected to the internet. Where are also more and more regles-attacks on these devices and appliance, which is why it is important to take recurity into Consideration when developing a product or dervice.

Sata foretestim is a bog concern with the internet of things because personal information can be collected and whared without consent there are also other challengs loke privacy, data ownership, and hacking.

Categories of 10T

- Consumer 10T (Smartphones, wearables, fashoon d'éms).

-> Senterprise 10T (to reduce manual work of increase business abbodency)

-> Industrial 10T (10T for manubacturing of management on industries).

Applications of 10T

Smoot Cities

- City loghting applications

- City transit applications

- environmental 4 wastewater management applications

Smert Transportation

- Improvee travelles experdence.
- Increase Sabely
- reduce Congention of energy use
 - Somprious operational perboumance
 - mone etbocoent
 - dynamic vroadede message sogn
 - autonomous vehicles.
 - vodeo Survellance, Solitions.

Measuring home condition (Temp, humodity, light of proximaly)

- Managing home appliances

- Continues

- Optimization of Spending (electrocity, water 4 gas consumption).

- Reveronmental Impact (autonomous LED lighting, fower consumption of words masses waste management system)

- Souproved Comboret.

- Enhance becurity

Smart Healthcare

- 10T devotes wou give be bip 4 heart rate monotoring cubts, Calonde Count, exercise check, appointments, blood pressure varients of patients.

- with 10T physocians can track patients health & provide immediate

treatment it viequired, - hospitals use 10T for realtone tracking location of niedocal equipments.
Reployments of medocal islaths at different locations can also be analyzed. - health insurance companies also detect fraud Claims of Identity

forcespects for underwriting. 107 brongs transparency between Incurers of Customers in underwrotong priving, claims handling, to rosk assessment

process.

Smart Industry 10T employs ra networks of Sensora to Collect Cristical broduction data of uses cloud software to two this odea onto valuable imaghts about the ebbocaency of manubacturing operations.

Smart Agriculture - real time update on volomate condition - Precise barning (helps farmer to generate data with the help of Sensone & analyze that information to take intelligent of quick decisions).

- Agrecultural Arona (a. a) - Agricultural obsones (Monitoring, Spraying, analysis). - Smart greenhouse (creater Consumption and green house state can be monitored, pressure, humidity, temperature 4 light levels can be monitored) - Data analytics. Smart knergy Management. - Empowering energy ettowent Smart beutdings - Saves hundreds hundreds of man hours for utility provider. - reduces energy bolls. - Support green business initeative - Minimixe Carbon emissions. - Optimize asset maintenance. automate processes. - Cut operational expenses. - Identity maltunction in time & prevent them. - effectively combat outage, and blackouts. - predict consumption, spending & plan accordingly.