5 th	1 st	Explain the automatic table feed
		mechanism
	2 nd	Explain the construction & working of tool
		head
	3rd	Explain the quick return mechanism
		through sketch
	4th	State the specification of a shaping
		machine.
7 th	1 st	5. Planning Machine
	2nd	Application area of a planar and its
	_	difference with respect to shaper
	3rd	Major components and their functions
	4th	The table drive mechanism
9 th	14	Working of tool and tool support
	2nd	Clamping of work through sketch.
	3rd	6 Milling Machine
	4th	Types of milling machine and operations
	4	performed by them
	1 st	Explain work holding attachment
	2nd	Construction & working of simple dividing
	2	head universal dividing head
	3rd	Procedure of simple and compound
	3,4	indexing
	4 th	Illustration of different indexing methods
	1 th	7. Slotter: major components
	2nd	Their function
	3rd	Construction of slotter machine
	4 th	Working of slotter machine
	1 st	Tools used in slotter
11 th	2nd	Tools used in slotter
	3rd	8. Grinding: Significance of grinding
	314	operations
	4 th	Manufacturing of grinding wheels
	1st	Criteria for selecting of grinding wheels
		Specification of grinding wheels with
	2 nd	example
	2-1	Working of Cylindrical Grinder, Surface
	3rd	Grinder Grinder
		W. I. CO. A. Jack College
	4 th	Working of Centre less Grinder
13 th	1 st	9. Internal Machining operations:
		Classification of drilling machines

	2 nd	Working of Bench drilling machine, Pillar drilling machine
	3rd	Working of Radial drilling machine
	4 th	Boring: Basic Principle of Boring
14 th	1 st	Different between Boring and drilling
	2 nd	Broaching: Types of Broaching (pull type, push type), Advantages of Broaching and applications
	3 rd	10. Surface finish, lapping: Definition of Surface finish, Define super finishing
	4 th	Description of lapping & explain their specific cutting.
15 th	1 st	Revision and previous year questions
	2nd	Revision and previous year questions
	3 rd	Revision and previous year questions
	4 th	Revision and previous year questions

Learning Resources:

Text Books:

1. Work shop Technology by HazraChoudharyVol.-I,Vol.-II 2. Manufacturing Technology by P. N. Rao, Vol.- I, Vol.-II

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