Pages-3 IV—Sem/MECH/2018(S)(New)

MANUFACTURING TECHNOLOGY

(Code: MET-402)

Full Marks: 70

Time: 3 hours

Answer any five questions

Figures in the right-hand margin indicate marks

1.	(a)	Define abrasive.	2
	(b)	What are the desirable characteristics of cutting tool materials?	5
	(c)	Name various cutting tool material. Briefly describe one important tool material along with its characteristics and usability.	7
2.	(a)	What do you mean by Lathe?	2
	(b)	Explain any one method of Taper-turning operation.	5

(Turn Over)

	(c)	Differentiate between capstan and turret lathe.	
			7
3.	(a)	How do you specify a shaper machine tool?	2
	(b)	State the function of ram in shaper.	5
	(c)	Explain quick-return mechanism of a shaper machine.	7
4.	(a)	Define delli	,
		Define drilling and boring.	2
	(b)	Explain the working of a radial drilling machine.	5
	(c)	What is broaching? Explain different types of broaching.	7
5.	(a)	What is indexing?	2
	(b)	Differentiate between up milling and down	
		milling.	5
	(c)	Explain compound indexing.	7
6.	(a)	What is super finishing?	2
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	(b)	Explain working of a slotter.	5
		State the criteria and specification of grinding wheels.	7
7.	(a)	How the size of a planer is specified?	2
	(b)	Describe in brief the main parts of planer.	5
	(c)	Describe table drive mechanism in planer.	~