

R18 Regulation

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY (Autonomous, Accredited by NAAC with 'A' Grade)

B.Tech V Semester Supplementary Examinations, July 2021 MACHINE TOOLS

(ME)

Maxii	num Marks: 70 (ME)	
Note:	1. This question paper contains two parts A and B. 2. Part A is compulsory which carries 20 marks. Answer all questions in Part A. 3. Part B consists of 5 Units. Answer any one full question from each unit. 4. Each question carries 10 marks and may have a, b, c, d as sub questions.	on: 3 hours
All th 1 2 3 4 5 6 7	Part-A	I=20 Marks)
A	Part-R	
11	i) Velocity ii) Material of work piece iii) Depth of cut iv) Tool Geomet	X 5=50Marks) [10M] ry
12	a) The tool signature is given as follows 6-6-5-10-5-5-0.8, label each in the b) Explain ideal properties of cutting tool materials.	
13	a) What are the differences between capstan and turret lathe?b) Explain the various types of chucks in detail.	[5M] [5M]
14	a) How lathe is specified. Explain briefly the operations that are performed	d on a latha
	b) Discuss in detail the taper turning by compound rest swivelling method	
15	Explain briefly a Jig boring machine with a neat sketch.	[10M]
16	OR	
16	a) Describe the operation of quick return motion in mechanical shaper.b) Draw kinematic scheme of a boring machine.	[5M] [5M]

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17	Discuss briefly the vertical milling machine.	0M]
18	OP	
	Determine the indexing crank movement for milling a square bolt by simple indexing	
19		10M]
19	a) What are the various methods of centreless grinding. b) How the grinding wheel is a latest and the second secon	[5M]
20	s wheel is selected for a particular job?	[5M]
20	a) Explain the process of process	[5] (I
	official of a griffilling machine	[5M] [5M]
	and the second and th	
		10
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		3