



R18 Regulation

Subject code: 2P5CC

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A+' Grade)

B.Tech V Semester Supplementary Examinations, December 2024

MACHINE TOOLS

(ME)

Maximum Marks: 70

Date: 31.12.2024

Duration: 3 hours

- 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 which carries 10M.
 4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks (10X2M=20) Marks)		CO	Bloom Tx
1	How do you define tool life?	1	L1
2	What is tool signature?	1	L1
3	What is the principle of working of a lathe?	2	L1
4	Write types of lathe?	2	L1
5	Define cutting ratio of the shaper.	3	L1
6	Mention any four shaper specifications.	3	L1
7	What is straddle milling?	4	L1
8	What do you mean by Indexing?	4	L1
9	What is Cylindrical grinding?	5	L1
10	What is Form grinding?	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		CO	Bloom Tx
11	Explain briefly about formation of chip.	1	L2
	OR		
12	What are the differences between orthogonal cutting and oblique cutting?	1	L2
13	Write a short note on Lathe Machine?	2	L2
	OR		
14	Explain about types of lathe operations.	2	L2
15	Explain the Principle and Working of Drilling Machine.	3	L2
	OR		
16	Explain the Principle and Working of Planer Machine.	3	L2
17	Explain in detail various operations performed on milling machine.	4	L2
	OR		
18	Explain the procedure for simple indexing with an example.	4	L2
19	Discuss the selection procedure of a grinding wheel.	5	L2
	OR		
20	What is 'grain size' related to grinding? How it effects the performance of grinding?	5	L2