



R18 Regulation *Subject code:2P5CC*
TKR COLLEGE OF ENGINEERING AND TECHNOLOGY
 (Autonomous, Accredited by NAAC with 'A+' Grade)

B.Tech V Semester Supplementary Examinations, July 2024

**Machine Tools
(ME)**

Maximum Marks: 70

Date:24.07.2024 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	Define lathe.		2	L1
4	Write types of lathe?		2	L1
5	List the various types of planners.		3	L1
6	What is the use of a tapping tool?		3	L1
7	What are the different types of dividing head?		4	L1
8	Milling cutters are made up of which materials?		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)		
11	Explain briefly about formation of chip. [10M]		1	L2
OR				
12	What are the differences between orthogonal cutting and oblique cutting? [10M]		1	L2
13	Write a short notes on Lathe Machine. [10M]		2	L2
OR				
14	Explain about types of lathe operations. [10M]		2	L2
15	Explain the Principle and Working of Drilling Machine. [10M]		3	L2
OR				
16	Explain the Principle and Working of Planer Machine. [10M]		3	L2
17	Explain in detail various operations performed on milling machine. [10M]		4	L2
OR				
18	Explain in detail various operations performed on milling machine. [10M]		4	L2

19	What is centreless grinding? Explain about external centreless grinding machine. [10M]		L2
	OR		
20	Discuss the selection procedure of a grinding wheel. [10M]	5	L2