



R18 Regulation

Subject code: 2P5CC

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

**B.Tech V Semester Supplementary Examinations, February 2024**

**Machine Tools**

(ME)

Maximum Marks: 70

Date:20.02.2024 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.  
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	What is the difference between three jaw and four jaw chuck		2	L1
5	How the planer differs from a shaper?		3	L1
6	What is the main difference made in divided table planer?		3	L1
7	What is climb milling?		4	L1
8	What is up milling?		4	L1
9	What do you mean by the term 'loading' in grinding wheel?		5	L1
10	What do you mean by 'glazing' in grinding?		5	L1

Part-B

Answer All the following questions.		(5X10M=50Marks)		
11	Explain briefly about formation of chip. [10]		1	L2
	OR			
12	What are the differences between orthogonal cutting and oblique cutting? [10]		1	L3
13	Explain about types of lathe operations. [10]		2	L2
	OR			
14	Write short notes on types of lathe machines. [10]		2	L2
15	Explain the classifications of shaper machines. [10]		3	L3
	OR			
16	Explain the Principle and Working of Planer Machine. [10]		3	L3
17	Explain in detail various operations performed on milling machine. [10]		4	L2
	OR			
18	Explain about up milling and down milling with neat sketches. [10]		4	L2
19	Discuss the selection procedure of a grinding wheel. [10]		5	L4
	OR			
20	What is surface grinding machine, explain any 2 types of surface grinding machines. [10]		5	L2

