



R18 Regulation

Subject code: 2P5CC

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech V Semester Supplementary Examinations, June/July 2023

Machine Tools

(Mechanical Engineering)

Maximum Marks: 70

Date: 28.06.2023 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)

- 1 How do you define tool life?
- 2 What is tool signature?
- 3 What is the principle of working of a lathe
- 4 Write types of lathe
- 5 Define cutting ratio of the shaper.
- 6 What is the main difference made in divided table planer?
- 7 What is climb milling?
- 8 What is up milling?
- 9 What do you mean by the term 'loading' in grinding wheel?
- 10 What do you mean by 'glazing' in grinding?

Part-B

Answer All the following questions.

(5X10M=50Marks)

- 11 Explain the geometry of single point tool. [10]
OR
- 12 Explain briefly about formation of chip. [10]
- 13 Write a short notes on Lathe Machine. [10]
OR
- 14 Explain about types of lathe operations. [10]
- 15 Explain the construction and working principle of Planner. [10]
OR
- 16 Explain the Principle and Working of Planer Machine. [10]
- 17 What is the principle of working of milling machines? How do you classify the milling machine? [10]
OR
- 18 Explain the procedure for simple indexing with an example. [10]
- 19 What is centreless grinding? Explain about external centreless grinding machine. [10]
OR
- 20 Discuss the selection procedure of a grinding wheel. [10]