



R18 Regulation

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

Subject code: 2P5CC

B.Tech V Semester Supplementary Examinations, January 2023
Machine Tools

Maximum Marks: 70

(ME)

11/01/23

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 Define Metal Cutting .
- 2 What are the important characteristics of materials used for cutting tools?
- 3 Write about single point cutting tool geometry with diagram.
- 4 Write types of lathe
- 5 How the planer differs from a shaper?
- 6 What is the main difference made in divided table planer?
- 7 Define drilling and boring.
- 8 What is up milling?
- 9 What do you mean by the term 'loading' in grinding wheel?
- 10 What is lapping and honing.

Part-B

Answer All the following questions.

(5X10M=50Marks)

- 11 Explain briefly about formation of chip. [10]
OR
- 12 What are the differences between orthogonal cutting and oblique cutting? [10]
- 13 Write a short notes on Lathe Machine with sketch. [10]
OR
- 14 What are the Work holding devices for a lathe? [10]
- 15 Explain the Principle and Working of Drilling Machine. [10]
OR
- 16 Explain the Principle and Working of Planer Machine. [10]
- 17 With the help of neat sketch explain the geometry of milling cutter. [10]
OR
- 18 Explain about up milling and down milling with neat sketches. [10]
- 19 Discuss the selection procedure of a grinding wheel. [10]
OR
- 20 What is surface grinding machine, explain any two types of surface grinding machines. [10]

