



Regulation R20

Subject code: 3P7CB

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VII Semester Supplementary Examinations, April 2024

CAD/CAM

(Mechanical Engineering)

Maximum Marks: 70

Date: 30.04.2024 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)

- 1 What are the input and output devices of computer.
- 2 What are applications of CAD/CAM?
- 3 Define modeling.
- 4 List out the modeling entities.
- 5 Name the types of parametric curves.
- 6 What is the difference between CNC and DNC.
- 7 How do you classify the cutting tools.
- 8 Define APT program.
- 9 What is meant by process planning?
- 10 What are the input and output devices of computer?

Part-B

Answer All the following questions.

(5X10M=50 Marks)

- 11 Define CAD? Explain about product cycle in any manufacturing system. [10]
OR
- 12 Name the types of printers? Explain about laser printer. [10]
- 13 Explain about transformation of geometry. [10]
OR
- 14 Explain about algorithm. [10]
- 15 Explain about CIM and its applications and benefits. [10]
OR
- 16 Explain the different types of cutting tools for CNC operations. [10]
- 17 Explain about computer aided process planning and its advantages. [10]
OR
- 18 What is the function of inspection? Explain with suitable examples. [10]
- 19 Discuss the role of CAPP in CIM in detail. [10]
OR
- 20 What are the benefits of GT? Explain the Opitz classification system. [10]