



R18 Regulation

# TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

Subject code:2P7CC

## B.Tech VII Semester Supplementary Examinations, December 2024

### CAD/CAM (ME)

Maximum Marks: 70

Date:02.01.2025

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			CO	BTL
All the following questions carry equal marks (10X2M=20) Marks)			1	L1
1	Explain computer operating devices.		1	L1
2	What are the functions of CAD/CAM		2	L1
3	Define modeling? list out its methods		2	L1
4	What are the modeling entities.		3	L1
5	Explain the curves used in design.		3	L1
6	Define DNC? List out its Advantages.		4	L1
7	Name the CNC milling machine operations.		4	L1
8	Explain about part programme		5	L1
9	What is meant by process planning.		5	L1
10	What are the computer peripherals			
Part-B			CO	BTL
Answer All the following questions. (5X10M=50Marks)			1	L2
11	List out solid modeling methods? Explain any one method in modeling. [10M]		1	L2
OR				
12	Explain B-rep. and CSG of solid modeling concepts with their advantages and disadvantages. [10M]		1	L2
13	Explain about transformation of geometry. [10M]		2	L2
OR				
14	Explain anyone line drawing algorithm. [10M]		2	L2
15	Explain briefly about CNC and DNC with a neat sketch. [10M]		3	L2
OR				
16	Explain the different types of cutting tools for CNC operations. [10M]		3	L2
17	Explain briefly about CAPP and its classifications. [10M]		4	L2
OR				
18	Explain about non destructive inspection methods with suitable examples.		4	L2
19	What is the function of inspection? Explain with suitable examples. [10M]		5	L2
OR				
20	Explain about CIM and write its applications and benefits. [10M]		5	L2