



R20 Regulation

Subject code: 3P7CB

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VII Semester Supplementary Examinations, November 2025

CAD/CAM

(ME)

Maximum Marks: 70

Date: 26.11.2025

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.
 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)		Marks	CO	BTL
1	Explain computer operating devices.	2M	1	L1
2	What are the functions of CAD/CAM?	2M	1	L1
3	Define modeling? list out its methods	2M	2	L1
4	What are the modeling entities.	2M	2	L1
5	Explain the curves used in design.	2M	3	L1
6	Define DNC? List out its Advantages.	2M	3	L1
7	Name the CNC milling machine operations.	2M	4	L1
8	Explain about part programme	2M	4	L1
9	Name the main components of CNC drilling machine.	2M	5	L1
10	What is the aim of non destructive inspection. .	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	Define CAM? Explain about product cycle in any manufacturing system.	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	Define CAM? Explain its applications, advantages and disadvantages.	10M	2	L2
15	Differentiate raster scan and random scan techniques.	10M	3	L2
	OR			
16	Explain the different types of cutting tools for CNC operations.	10M	3	L2
17	Explain about computer aided process planning and its advantages.	10M	4	L2
	OR			
18	Write a CNC programme for step Turning with an example.	10M	4	L2
19	What is the destruction inspection methods?	10M	5	L2
	OR			
20	What are the benefits of GT? Explain the classifications.	10M	5	L2