R18 Regulation *Subject code:2P6FB*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VI Semester Supplementary Examinations, May 2025

OBJECT ORIENTED ANALYSIS AND DESIGN

(IT)

Maximum Marks: 70 Date: 18.06.2025 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	Define Model. Why do we build model?	2M	1	L1
2	List the principles of modelling in UML	2M	1	L1
3	Write about Multiplicity?	2M	2	L1
4	Define composition with neat sketch.	2M	2	L1
5	Distinguish between activity and action states in UML.	2M	3	L1
6	Differentiate Process and Thread.	2M	3	L1
7	What is node?	2M	4	L1
8	What are the different kinds of components?	2M	4	L1
9	Write down how to organize nodes in UML?	2M	5	L1
10	Differentiate import interface and export interface.	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	a) Explain about Principles of modeling. b) What are structural things? Explain briefly.	5M 5M	1	L2
	OR			
12	Explain briefly about a) Stereotypes b) Tagged values c) Constraints	4M 3M 3M	1	L2
13	Explain about Terms and Concepts in Relationships.	10M	2	L2
	OR			
14	a) Enumerate the steps to model different levels of abstraction. b) Explain the steps to model the web of Relationships.	5M 5M	2	L2
15	Explain about a) Modelling a Flow of Control b) Organizing Use Cases	5M 5M	3	L2
	OR			
16	Discuss in detail briefly a)Transitions b) Branching c) Forking and Joining	4M 3M 3M	3	L2

17	Explain about Communication and synchronization with a suitable example.	10M	4	L2
	OR			
18	a) Enumerate the steps to model the modeling multiple flows of control. b) Discuss the steps to model the modeling inter process communication.	5M 5M	4	L2
19	Construct unified library applications with UML diagrams and relations.	10M	5	L3
	OR			
20	a) Enumerate the steps to model embedded system. b) Draw Deployment diagram for the ATM bank system.	5M 5M	5	L2