R18 Regulation *Subject code:2P6ED*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VI Semester Supplementary Examinations, November 2025

OBJECT ORIENTED ANALYSIS AND DESIGN

(CSE)

Maximum Marks: 70 Date:17.11.2025 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	What is Object-Oriented Analysis?	2M	1	L1
2	Define Structural Things.	2M	1	L1
3	What are the terms and concepts of classes? And how we define names in classes.	2M	2	L1
4	Define constraints with example.	2M	2	L1
5	Differentiate activity diagram with other uml diagrams.	2M	3	L1
6	Relate the term thread with class diagram	2M	3	L1
7	What is call event and interpret time and change events.	2M	4	L1
8	Differentiate components and interfaces.	2M	4	L1
9	Write the significance of a pattern?	2M	5	L1
10	What are the common uses of class diagram	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	Explain about common mechanisms in the UML.	10M	1	L2
	OR			
12	Write about a conceptual model of the UML.	10M	1	L2
13	Summarize the terms and concepts of class diagram.	10M	2	L2
	OR			
14	Explain modeling the vocabulary of a system.	10M	2	L2
15	Explain difference of interaction diagrams with examples.	10M	3	L2
	OR			
16	Draw and explain use case diagram for E-Ticketing.	10M	3	L2
17	Enumerate the steps in modeling the life time of an object.	10M	4	L2
	OR			
18	Enumerate the steps to forward engineer and to reverse engineer for deployment diagram.	10M	4	L2

19	Draw and explain the sequence diagram for the search facility of the objects in the library system so that the "Wild card "characters can be used when searching for titles authors or borrowers.	10M	5	L2
	OR			
20	Discuss about common modeling techniques for patterns and frame works.	10M	5	L2