



R18 Regulation

Subject code: 2P6ED

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY
(Autonomous, Accredited by NAAC with 'A+' Grade)

B.Tech VI Semester Supplementary Examinations, December 2024
OBJECT ORIENTED ANALYSIS AND DESIGN
(Computer Science and Engineering)

Maximum Marks: 70

Date: 09.01.2025

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.

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=20Marks)

1	Define Dependency and Association in UML.	CO1	L1
2	What are the adornments in the UML?	CO1	L1
3	What are the four aims of modelling?	CO2	L1
4	Define distribution of responsibilities in a system.	CO2	L1
5	Distinguish between action state and activity state.	CO3	L1
6	What is an Activity Diagram?	CO3	L1
7	Define Active Objects, Passive Objects, Processes and Threads.	CO4	L1
8	Distinguish between Activity state and Action state	CO4	L1
9	Define Component Diagram and Deployment Diagram	CO5	L1
10	Define Pattern and Framework.	CO5	L1

Part-B

Answer All the following questions.

(10M X 5=50Marks)

11	a) Enumerate the Steps to model architectural views. [5M] b) Discuss all the four Relationships and Contrast is-a relationship with has-a relationship. [5M]	CO1	L2
	OR		
12	Explain the various views considered in modeling a system's architecture. [10M]	CO1	L2
13	Enumerate modeling static and dynamic type. [10M]	CO2	L2
	OR		
14	a) Enumerate steps to model Vocabulary of a System. [5M] b) Enumerate Steps to model distribution of responsibilities in a System. [5M]	CO2	L2
15	a) What is a Use Case. Explain about Use case description with an example. [5M] b) State and explain common modelling techniques of use case diagrams. [5M]	CO3	L2
	OR		
16	a) Differentiate between Sequence and Collaboration diagram. [5M]	CO3	L2

	b) Draw a Sequence diagram for Customer interaction with ATM machine. [5M]		
17	What is an Event. Explain various kinds of Events and their modelling in UML. [10M]	CO4	L2
	OR		
18	Explain the four kinds of events modeled by UML. [10M]	CO4	L2
19	a. Explain "Issuing of a book" operation using collaboration diagram. [5M] b. Explain Terms and Concepts in Patterns and Framework. [5M]	CO-5	L2
	OR		
20	Draw the Interaction diagram for login use case in Library Management System. [10M]	CO-5	L2