



R22 Regulation

Subject code:4P5GD

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech V Semester Supplementary Examinations, May 2025

OBJECT ORIENTED ANALYSIS & DESIGN

(CSE(AI&ML))

Maximum Marks: 60

Date: 27.06.2025

Duration: 3 hours

- Note:
- 1.This question paper contains two parts A and B.
 2. Part A is compulsory which carries 10 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 (10X1M=10 Marks)		Marks	CO	Bloom Tx
1.a)	List the Principles of Modeling in UML.	1M	1	1
b)	Expand SDLC.	1M	1	2
c)	Define Attribute with an example.	1M	2	1
d)	List out the simple dependencies.	1M	2	2
e)	Define interactions	1M	3	1
f)	Write about association.	1M	3	3
g)	Differentiate process and Thread	1M	4	2
h)	Define stereotype.	1M	4	1
i)	Write the significance of patterns.	1M	5	2
j)	Define stereotypes that apply to components.	1M	5	1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	Bloom Tx
2	Explain about Basic building blocks of UML? OR	10M	1	2
3	Discuss About UML Architecture.	10M	1	6
4	List out the steps to model different levels of abstraction. OR	10M	2	1
5	Explain about common modeling techniques in object diagram.	10M	2	2
6	Enumerate the steps to model the behavior of an element. OR	10M	3	3
7	Explain forward engineering and reverse engineering of interaction diagrams.	10M	3	2
8	List out the steps in modeling a family of signals. OR	10M	4	2
9	Explain: a) Advanced states and Transitions b) Modeling the Timing constraints	5M 5M	4	2
10	Develop a use case diagram and class diagram for ATM withdrawal function of a system. OR	10M	5	2
11	List out the steps to model for the source code and Executable Release.	10M	5	2