



R18 Regulation

Subject code:2P6ED

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

B.Tech VI Semester Supplementary Examinations, February 2024

OBJECT ORIENTED ANALYSIS AND DESIGN
(Computer Science and Engineering)

Maximum Marks: 70

Date:27.02.2024 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		CO	Blooms Tx
All the following questions carry equal marks (10x2M=20Marks)			
1	Define realization and generalization in UML.	1	L1
2	Write the purpose of Swim Lanes in UML	1	L1
3	Write the common uses of Class Diagram.	2	L1
4	What is the difference between note and node.	2	L1
5	Write the importance of Modelling	3	L1
6	What is an Activity Diagram? Mention the elements of an Activity diagram.	3	L1
7	Define Active Objects, Passive Objects , Processes and Threads.	4	L1
8	Distinguish between Activity state and Action state	4	L1
9	Define Component Diagram and Deployment Diagram	5	L1
10	Define Pattern and Framework.	5	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]	1	L2
OR			
12	Discuss about the Building blocks of UML. [10m]	1	L6
13	a) What is a Class diagram? Discuss the common properties of Class diagram with an example. [5m] b) With reference to Class diagrams, enumerate the steps to forward engineer. [5m]	2	L2 L6
OR			
14	a) Enumerate steps to model Vocabulary of a System. [5m] b) Enumerate Steps to model distribution of responsibilities in a System. [5m]	2	L6

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]	3	L2
OR			
16	a) Differentiate between Sequence and Collaboration diagram. [5m] b) Draw a Sequence diagram for Customer interaction with ATM machine. [5m]	3	L2
17	What is an Event. Explain various kinds of Events and their modelling in UML. [10m]	4	L2
OR			
18	Discuss about Component and Deployment diagrams with an example. [10m]	4	L2
19	Discuss the Terms and Concepts in Patterns and Framework. [10m]	5	L6
OR			
20	Explain Common Modeling Techniques of Design Patterns and Architectural Patterns. [10m]	5	L2