R18 Regulation *Subject code: 2P6ED*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VI Semester Supplementary Examinations, July 2024

OBJECT ORIENTED ANALYSIS AND DESIGN

(CSE)

Maximum Marks: 70 Date:01.08.2024 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 which carries 10M.
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)		CO	Bloom Tx
1	Define realization and generalization in UML.	1	L1
2	List the diagrams in UML.	1	L1
3	Write the common uses of Class Diagram.	2	L1
4	Write the basic adornments apply to an association.	2	L1
5	List three levels of visibility in UML.	3	L1
6	Distinguish between action state and activity state.	3	L1
7	Summarize various parts of a transition.	4	L2
8	Explain the steps required to model processors and devices.	4	L2
9	Define use case for ATM bank system.	5	L1
10	What is node? How to organize nodes in UML?	5	L1
	Part-B		
Answer All the following questions. (5X10M=50Marks)			
11	a) Enumerate the Steps to model architectural views. [5] b) Discuss all the four Relationships and Contrast is-a relationship with has-a relationship. [5]	1	L2
	OR		
12	Discuss about the Building blocks of UML. [10]	1	L3
13	a) Draw and explain the class diagram for an ATM bank system. [5] b) Explain about links and associations in detail. [5]	2	L3
	OR		
14	What are the Structural diagrams? Explain with examples. [10]	2	L2
15	Discuss the properties and common uses of sequence diagrams and collaboration diagrams. [10]	3	L3
	OR		
16	a) Explain about forking and joining concepts in activity diagram with an example. [5]	3	L2

	b) Discuss the objective of Swimlanes and Draw an activity diagram for E-ticketing System using Swimlanes. [5]		L4
17	a) Discuss about state machines. And explain about advanced states and transitions. [5] b) Explain briefly about Statechart diagrams. [5]	4	L2 L3
	OR		
18	a) Enumerate the steps to forward engineer and to reverse engineer a deployment diagram. [5] b) Define component. What are the differences between components and classes? [5]	4	L1 L3
19	Discuss the Terms and Concepts in Patterns and Framework. [10]	5	L3
	OR		
20	Explain "Issuing of a book" operation for "The Unified library application" using Use case diagram and Class diagram. [10]	5	L3