



R20 Regulation

Subject code: 3P5EA

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech V Semester Regular/Supplementary Examinations, February 2024

OBJECT ORIENTED ANALYSIS AND DESIGN
(COMPUTER SCIENCE & ENGINEERING)

Maximum Marks: 70

Date:15.02.2024 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	Bloom Tx level
All the following questions carry equal marks			(10x2M=20 Marks)	
1		List the nine diagrams in UML	1	L4
2		What is the need for adornments in UML? Give one example for it	1	L1
3		What does a simple name in UML class and objects consists of?	2	L1
4		Identify the relationships in UML	2	L2
5		Mention the types of interaction diagrams	3	L1
6		What are the initial and final states of activity diagram?	3	L1
7		State the parts of a deployment diagram	4	L1
8		What is a component? How it is rendered in UML?	4	L3
9		What is design pattern and its elements?	5	L1
10		What is the purpose of framework?	5	L1
Part-B				Bloom Tx level
Answer All the following questions.			(5X10M=50Marks)	
11	a	Discuss about the importance of modeling in UML. [5m]	1	L6
	b	Explain about software development life cycle[5m]	1	L5
OR				
12	a	Explain the various views considered in modeling a system's architecture?[5m]	1	L5
	b	Why is it necessary to have a variety of diagrams in a model of a system? [5m]	1	L3
13	a	Explain the various kinds of advance relationships in UML. [5m]	2	L3
	b	Describe the UML class diagram with an example.[5m]	2	L3
OR				
14	a	Explain the common modeling techniques of object diagram? [5m]	2	L3
	b	Explain the common mechanisms of basic structural modeling [5m]	2	L3

15	a	State the purposes of interaction diagram. How to draw an interaction diagram. [5m]	3	L3
	b	Describe a suitable example showing the various relationships used in use case and also gives a short note on each relationship. [5m]	3	L3
OR				
16	a	Draw and explain the activity diagram for bank ATM system. [5m]	3	L6
	b	Discuss about contents and common properties of interaction diagram. [5m]	3	L3
17	a	Illustrate about UML deployment and component diagram. Draw the diagram for banking applications. [5m]	4	L3
	b	Explain states and events and discuss the preparation of state chart diagram. [5m]	4	L3
OR				
18	a	Discuss about state machines in detail [5m]	4	L3
	b	Draw and explain the deployment diagram for a system where various clients communicate with a server machine. [5m]	4	L3
19	Construct the class and use case diagrams for library application [10m]		5	L6
OR				
20	Construct sequence and activity diagrams for library information system [10m]		5	L6