



R20 Regulation

Subject code:3P5EA

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech V Semester Supplementary Examinations, December 2024

OBJECT ORIENTED ANALYSIS AND DESIGN (CSE)

Maximum Marks: 70

Date:23.12.2024

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	List the relationships used in class diagram?	1	L1
2	List principles of modeling.	1	L1
3	Define Scope.	2	L1
4	Define Realization relationship in UML.	2	L1
5	What is the relationship between use cases and test cases?	3	L1
6	State how component and interfaces are related.	3	L1
7	Compare component and deployment diagrams	4	L1
8	Distinguish between activity state and action state.	4	L1
9	What are the different types of design patterns?	5	L1
10	What are the steps to model simple collaborations of class diagram?	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		CO	Bloom Tx
11	A) Explain about relationship in UML. [5M] B) Write about an overview of the UML. [5M]	1	L2
	OR		
12	A) Explain with an example of hospital management system by their relationships. [5M] B) Explain the following a) Grouping Things b) Annotational Things [5M]	1	L2
13	Explain about classes and common modeling techniques. [10M]	2	L2
	OR		
14	A) Write about common modeling techniques of relationships. [5M] B) Explain about extensibility mechanisms in UML. [5M]	2	L2
15	With reference to the activity diagram enumerate the steps to forward and reverse Engineering. [10M]	3	L2
	OR		
16	Draw the use case and activity diagram for an online airline reservation system. Summarize the purpose of each use case, actor and its importance. [10M]	3	L2

17	A) What are the stereotypes that can be applied to dependency relationships among use cases? [5M] B) Explain in detail the common uses and properties of component diagram. [5M]	4	L2
	OR		
18	Enumerate the steps to forward engineer and to reverse engineer for deployment diagram. [10M]	4	L2
19	Sketch the activity diagram for library application. [10M]	5	L3
	OR		
20	Interpret how to model architectural patterns. [10M]	5	L2