



R20 Regulation

Subject code:3P5EA

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech V Semester Regular Examinations, January 2023

OBJECT ORIENTED ANALYSIS AND DESIGN (COMPUTER SCIENCE AND ENGINEERING)

Maximum Marks: 70

Date:06.01.2023 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)

- 1 What are the principles of Modeling?
- 2 Define software process.
- 3 Write short notes for Advanced Relationships
- 4 List the relationships used in class diagram
- 5 List the common uses of interaction diagrams?
- 6 What is meant by forking and joining?
- 7 How do you represent time and space behavior in UML .
- 8 List the scope of Events.
- 9 Define Frameworks.
- 10 Define patterns

Part-B

Answer All the following questions.

(5X10M=50Marks)

- 11 a) Explain about Software Development Life Cycle.
b) Explain the importance of modeling. [5+5]

OR

- 12 a) Discuss in detail about software architecture.
b) Describe the conceptual model for UML? [5+5]
- 13 a) Discuss in detail about interfaces, types and roles.
b) Discuss the Modeling techniques for Object diagrams. [5+5]

OR

- 14 a) Discuss about the advanced classes in UML?
b) Explain the various types of common mechanism in UML. [5+5]
- 15 a) Discuss the modeling techniques for activity diagrams.
b) Explain Forward and Reverse engineering for interaction diagram. [5+5]

OR

- 16 a) Model the use case diagram for ATM.
b) Describe the interaction diagrams. [5+5]

- 17 a) Explain the Collaboration Diagram and list its merits.
b) Discuss the modeling techniques for state chart diagrams. [5+5]

OR

- 18 a) Discuss the modeling techniques for Deployment diagrams.
b) Explain the Modeling techniques for component diagrams. [5+5]

- 19 a) Describe about activity diagrams in UML.
b) What are the frameworks in UML? [5+5]

OR

- 20 a) What are the patterns in UML?
b) Draw the activity diagram for Unified Library. [5+5]