



R18 Regulation

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

Subject code: 2P6ED

B.Tech VI Semester Regular/Supplementary Examinations, June 2021

OBJECT ORIENTED ANALYSIS AND DESIGN (COMPUTER SCIENCE & ENGINEERING)

Maximum Marks: 70

Date: 23.06.2022 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 State the four basic principles of Modeling.
- 2 What is Unified Modeling Language?
- 3 Define Stereotype, Tagged Value and Constraint.
- 4 State the difference between class diagram and object diagram.
- 5 Draw Use Case diagram for Passport Automation System.
- 6 State the difference between Sequence and Collaboration Diagram.
- 7 Define Process and Thread.
- 8 What is the difference between node and interface?
- 9 Define Pattern.
- 10 How are Frameworks distinguished from plain class libraries?

Part-B

Answer All the following questions.

(10MX 5=50Marks)

- 11 Explain the various phases of Software Development Life Cycle with a neat diagram. (10)
OR
- 12 A. Explain the common mechanisms in UML. (5)
B. Illustrate the architecture of a Software Intensive System with a neat diagram. (5)
- 13 Explain the various relationships in Object Oriented Modeling
A. Dependency (2)
B. Generalization (2)
C. Association (2)
D. Multiplicity in Association (2)
E. Aggregation (2)
OR
- 14 A. Explain the various features of a class diagram with an example. (5)
B. Define Package. Explain how to import and export a package using an example. (5)
- 15 Classify Draw and Explain the various types of Interaction diagram for Library Management System. (10)
OR

- 16 Explain the various elements of Activity Diagram for a Loan Processing Application. (10)
- 17 Explain how to model the event ordered behavior of an object by using state chart Diagram.(10)
- OR
- 18 What is the operation of Component and Deployment Diagram? Draw the Component and Deployment diagram for Hospital Management System. (10)
- 19 How to model a design pattern? (10)
- OR
- 20 Illustrate Framework with an example. Give a comparison between Patterns and Frameworks. (10)