



R20 Regulation

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

Subject code:3P5FE

B.Tech V Semester Regular Examinations, January 2023

OBJECT ORIENTED ANALYSIS AND DESIGN
(INFORMATION TECHNOLOGY)

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 is a class and object?
- 2 Identify the basic rules in UML.
- 3 Write short notes for Advanced Relationships.
- 4 Define types and roles
- 5 Define Interfaces
- 6 Differentiate between forking and joining.
- 7 List the various uses of deployment diagrams.
- 8 Define processes and threads.
- 9 List the uses of patterns
- 10 Define frameworks.

Part-B

Answer All the following questions.

(5X10M=50Marks)

- 11 a) Discuss System architecture.
b) Explain in detail the different kinds of things in UML? [5+5]

OR

- 12 a) Explain in detail importance of modeling?
b) Discuss software development life cycle. [5+5]

- 13 a) Explain terms and concepts of class diagrams.
b) Enumerate the advanced relationships for the common modeling techniques that can be used in UML in detail. [5+5]

OR

- 14 a) Explain Forward and Reverse engineering for object diagram.
b) Explain modeling techniques for object Diagrams. [5+5]

- 15 a) How do you depict various types of messages in sequence diagrams?
b) Discuss common modelling techniques for use case diagram. [5+5]

OR

- 16 a) Explain the terms, concepts in activity diagram.
b) Determine the common uses of collaboration diagrams? [5+5]

- 17 a) Discuss different types of events and signals.
b) Design a component diagram for an ATM system. [5+5]

OR

- 18 a) How do you model the lifetime of an object using state chart diagrams?
b) Discuss common modelling techniques for deployment diagram. [5+5]

- 19 a) What are the classification of patterns?
b) Create a Unified Library Application. [5+5]

OR

- 20 a) Discuss in detail about frameworks.
b) List common uses of patterns. [5+5]