



Regulation R17

**TKR COLLEGE OF ENGINEERING AND TECHNOLOGY**  
(Autonomous, Accredited by NAAC with 'A' Grade)

Subject code:1E6FD

**B. Tech III Year II Semester Supplementary Examinations, June 2022**

**OBJECT ORIENTED ANALYSIS AND DESIGN**  
(IT)

**Maximum Marks: 70**

Date:22.06.2022 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.  
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 the importance of modeling?
- 2 Classify structural things?
- 3 What are the common uses of class diagrams?
- 4 What are the different kinds of classifiers to help you to model?
- 5 Explain about objects and roles?
- 6 Discuss use cases and actors?
- 7 What are the different kinds of Events?
- 8 Define Event Trigger?
- 9 What are different kinds of patterns?
- 10 Define Framework with example?

**Part-B**

Answer All the following questions.

(10M X 5=50Marks)

- 11 Illustrate the conceptual model of UML in detail?

10M

OR

- 12 a) Summarize common mechanisms in UML?

5M

- b) Explain in detail about SDLC? 5M
- 13 Explain the following 10M
- a) Types and Roles b) Importing and Exporting c) Classifiers
- OR
- 14 a) Enumerate the steps to model logical database schema? 5M
- b) Draw and explain the class diagram for an ATM bank system? 5M
- 15 Explain the following
- a) Modeling the context of a system 5M
- b) Collaboration diagram 5M
- OR
- 16 Explain about Modeling flows of control by time ordering? 10M
- 17 Explain the following
- a) Advanced states and Transitions 5M
- b) Modeling the Timing constraints 5M
- OR
- 18 Explain about states and substates in state machines? 10M
- 19 Enumerate the steps to modeling an API? 10M
- OR
- 20 Explain the following 5+5M
- a) Mechanisms b) Frameworks