*Regulation 18* *Subject code: 2P6FB*

# TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

## B.Tech VI Semester Supplementary Examinations, February 2024

## Object Oriented Analysis and Design
## (Information Technology)

***Maximum Marks: 70*** Date:17.02,2024 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 | Write about Annotational Thing? | 1 | L1 |
| 2 | Define generalization with example? | 1 | L1 |
| 3 | Discuss owned elements in packages? | 2 | L2 |
| 4 | Explain about Multiplicity? | 2 | L2 |
| 5 | Write common uses of Use case Diagrams? | 3 | L1 |
| 6 | Distinguish between activity and action states in UML? | 3 | L2 |
| 7 | What are the different kinds of components? | 4 | L1 |
| 8 | What do you mean by Deployment diagram? | 4 | L1 |
| 9 | Differentiate import interface and export interface? | 5 | L2 |
| 10 | Define sterotypes that apply to components? | 5 | L2 |

Part-B

| Answer All the following questions. (5X10M=50Marks) | | | |
|---|---|---|---|
| 11 | a) Explain about Principles of modeling. [5]<br>b) Explain about structural things. [5] | 1 | L2 |
| | OR | | |
| 12 | Explain briefly about [3+3+4]<br>a) Stereotypes b) Tagged values c) Constraints | 1 | L2 |
| 13 | Explain about Terms and Concepts in Relationships. [10] | 2 | L2 |
| | OR | | |
| 14 | Organize common modeling techniques in object diagram. [10] | 2 | L3 |
| 15 | Explain: a) Swimlanes b) Object Flow [5+5] | 3 | L2 |
| | OR | | |
| 16 | Illustrate with example about Sequence diagram and collaboration diagram. [10] | 3 | L2 |
| 17 | Explain about common modeling techniques in Time and space. [10] | 4 | L3 |

| | | | |
|---|---|---|---|
| | OR | | |
| 18 | Explain about common modeling techniques in Deployment. [10] | 4 | L2 |
| 19 | Explain the following<br>a) Modeling a client server system. [5]<br>b) Modeling a fully Distributed system. [5] | 5 | L2 |
| | OR | | |
| 20 | a) What is Deployment diagram? With reference to deployment diagram enumerate the steps to model to Reverse engineering? [5]<br>b) Construct a diagram that shows set of nodes and their relations for library management system? [5] | 5 | L4 |