



R18 Regulation

Subject code: 2P6FB

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VI Semester Supplementary Examinations, November 2025

OBJECT ORIENTED ANALYSIS AND DESIGN

(IT)

Maximum Marks: 70

Date: 21.11.2025

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)		Marks	CO	BTL
1	Explain about Annotational Thing?	2M	1	L1
2	Define generalization with example?	2M	1	L1
3	Discuss owned elements in packages?	2M	2	L1
4	Explain about Multiplicity?	2M	2	L1
5	Write common uses of Use case Diagrams?	2M	3	L1
6	Discuss about Sequencing?	2M	3	L1
7	Differentiate process and Thread?	2M	4	L1
8	Explain about component and classes?	2M	4	L1
9	Define simple name and path name in component with neat sketch?	2M	5	L1
10	What is an artifact?	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	a) Explain about Principles of modeling? b) What are structural things? Explain briefly?	5M 5M	1	L2
OR				
12	Explain briefly about a) Stereotypes b) Tagged values c) Constraints	4M 4M 2M	1	L2
13	Explain about Terms and Concepts in Relationships?	10M	2	L2
OR				
14	Explain about common modeling techniques in object diagram?	10M	2	L2
15	Explain about a) Swimlanes b) Object Flow	5M 5M	3	L2
OR				
16	Discuss in detail briefly a) Transitions b) Branching c) Forking and Joining	4M 4M 2M	3	L2
17	Explain about Communication and synchronization with a suitable example?	10M	4	L2
OR				

18	a) Enumerate the steps to model the modeling multiple flows of control? b) Enumerate the steps to model the modeling interprocess communication?	5M 5M	4	L2
19	a) Enumerate the steps to Modeling the design patterns? b) Enumerate the steps to Modeling the architectural patterns?	5M 5M	5	L2
	OR			
20	a) Enumerate the steps to model embedded system? b) Draw Deployment diagram for the ATM bank system?	5M 5M	5	L2