B.E. / B.Tech. - DEGREE EXAMINATIONS, APRIL/MAY 2023
Fourth Semester
Computer Science and Engineering

(Common to Sixth Semester - Computer and Communication Engineering)

20CSPC403 - OBJECT ORIENTED SOFTWARE ENGINEERING

(Regulations 2020)

Duration: 3 Hours   Max. Marks: 100

PART - A (10 × 2 = 20 Marks)
Answer ALL Questions

		Marks, K-Level, CO
1.	Define incremental process model.	2,K1,CO1
2.	List the advantages of spiral model.	2,K1,CO1
3.	Name the types of coupling.	2,K1,CO2
4.	What is data abstraction?	2,K1,CO2
5.	Define unified process.	2,K1,CO3
6.	Differentiate include and extend relationship.	2,K2,CO3
7.	Define coupling.	2,K1,CO4
8.	What is information expert?	2,K1,CO4
9.	What is the use of unit testing?	2,K1,CO5
10.	Define Reengineering.	2,K1,CO5

PART - B (5 × 13 = 65 Marks)
Answer ALL Questions

11.	a)	Explain in detail about Agile process.	13,K2,CO1
		OR	
	b)	Explain the following in detail:	
		(i) RAD MODEL.	5,K2,CO1
		(ii) PROTOTYPING.	4,K2,CO1
		(iii) SPIRAL.	4,K2,CO1
12.	a)	Explain in detail about software requirements document (SRS).	13,K2,CO2
		OR	
	b)	Explain in detail about the following	
		(i) Design process	6,K2,CO2
		(ii) Design concepts	7,K2,CO2

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create   **11993**

13.	a)	Illustrate system sequence diagram, collaboration diagram, Activity diagram for a BANK ATM system.	13,K2,CO3
		OR	
	b)	Illustrate UML diagrams for Railway Reservation system.	13,K2,CO3
14.	a)	Explain the following in detail:-	
		(i) Package Diagram.	5,K2,CO4
		(i) Component diagram.	4,K2,CO4
		(ii) Deployment diagram.	4,K2,CO4
		OR	
	b)	Demonstrate on various concepts of Cohesion and Coupling in detail with necessary diagrams.	13,K2,CO4
15.	a)	Explain in detail about white box testing.	13,K2,CO5
		OR	
	b)	Define software testing. Explain the internal and external views of testing in detail.	13,K2,CO

PART - C (1 × 15 = 15 Marks)

16.	a)	Explain in detail about Reengineering process model.	15,K2,CO6
		OR	
	b)	Explain the following in detail with diagram:-	
		(i) Reverse Engineering.	8,K2,CO6
		(ii) Forward Engineering.	7,K2,CO6