MCA Sem.-3 Examination

Object Oriented Software Engineering

Time: 3-00 Hours

December-2024

NOTE: (1) Write both the sections in the separate answer books

[Max. Marks: 50

		(2) Figures to the right indicate full marks.(3) Make necessary assumptions wherever necessary.SECTION-I	
Q.1	1	Define following terms.	[9]
	1 2	Use case Software process	
	3	Polymorphism	
Q.2		Attempt the following.	
	(a) (b)	Differentiate between conventional and agile software development. List steps in requirement engineering. OR	[4] [4]
Q-2	(a)	Draw use case and activity diagram for 'add to cart' feature of any e-shopping website.	[4]
	(b)	Explain function point method for estimating effort in software cost estimation.	[4]
Q.3	(a)	Attempt the following. Explain object model, dynamic model and functional model. Explain with suitable examples.	[8]
Q-3	(a)	OR Explain any one method of estimating risk based on schedule.	
		SECTION-II	
Q.4	1 2 3 4	Define following terms (Any three) Software reliability Defect Removal Effectiveness CMM Software metrics and indicators	[9]
Q.5	(a) (b)	Explain different types of messages used in sequence diagram. Explain any 4 software quality attributes.	[4] [4]
Q.5	(a)	OR Explain working of configuration control management.	[4]
	(b)	Using a suitable class diagram, describe: generalization and aggregation.	[4]
Q.6	(a)	Attempt the following (Any one) Draw state transition diagram of ATM system.	[8]

 $Q \in \mathcal{C}$ (a) With a suitable example, explain path testing.