SEAT No. :

P1992

[Total No. of Pages : 2

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B.E. (Computer Engineering) OBJECT ORIENTED MODELING AND DESIGN (2008 Pattern) (Semester - I)

Time : 3 Hours]

[Max. Marks : 100

Instructions to the candidates :

- 1) Answer three questions from section I and three questions from section II.
- 2) Answers to the two sections should be written in separate answer-books.
- 3) Neat diagrams must be drawn whenever necessary.

SECTION - I

Q1) a)	What is the need of modeling software system? What are OO concepts used in software modeling and how? [8]	
b)	What do you mean by OMG? Explain the CORBA architecture. [8]	
OR		
Q2) a)	Draw and explain $4 + 1$ view architecture of the system models all the	
	view of the system? [8]	
b)	Explain the behavioral things in UML2.0 [8]	
Q 3) a)	How UML2.0 supports requirements modeling? [8]	
b)	Give the activity diagram for 'Book a Ticket' in Railway Reservation	
,	System using swim lanes. State your assumptions. [8]	
OR		
Q4) a)	Draw detailed use case diagram for online Internet Banking System using	
-	all advanced notations for use case diagram [8]	
b)	What are boundary classes? Identify' and model in UML the boundary	
	classes in a ATM system. [8]	
Q5) a)	Explain the element of a class diagram with an example. [8]	
b)	Explain the application of composite structure diagram. [6]	
c)	What do you mean by an active class. [4]	
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Q6) a) b)	Draw the class diagram for online Airline traffic management system. [8] Explain the concept of Realization and Aggregation. [6]	
c)	How to draw object diagrams? [4]	
<u>SECTION - II</u>		
Q 7) a)	Explain the communication diagram with example. [6]	
b)	How timing diagram can be used in real time systems? [6]	
c)	Enlist and elaborate the significance of messages used in sequence diagram. [6]	
OR		
Q8) a)	Explain the sequence diagram elements with a sequence diagram for"withdraw money" from ATM system.[8]	
b)	Explain following : [6]	
	i) Composite State	
	ii) Self transition	
	iii) Sub State	
c)	How interaction overview diagram is related to activity diagram? [4]	
Q9) a)	Explain the purpose of a component diagram with a diagram and example. [8]	
b)	How do you model the deployment view in UML? [8] OR	
Q10)a)	What are types of interfaces of a component? How it is modeled in UML? [8]	
b)	Draw the deployment diagram for client server 3 tier for your college website. [8]	
<i>Q11</i>)a)	Explain the forward engineering and reverse engineering with example.[8]	
b)	Give the solution for structural design pattern. [8]	
	OR	
Q12)a)	How do you forward engineer a class diagram?[8]	
b)	Explain the facade design pattern with an example. [8]	

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