(21)

Total No of Questions: [12] *SEAT NO. :* [ ]

[Total No. of Pages : 2]

B.E. (Computer Engineering.)
Object Oriented Modeling and Design
(2008 Pattern)(Sem.-I)

Time: 3Hours *Max. Marks : 100*

Instructions to the candidates:

1) ***Answers to the two sections should be written in separate answer books.***
2) ***Neat diagrams must be drawn wherever necessary.***
3) ***Figures to the right indicate full marks.***
4) ***Assume Suitable data if necessary***

SECTION I

Q1)	a)	What is the need of modeling software system? What are OO concepts used in software modeling and how are they used to model a system?	[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 ?	[8]
	b)	Explain the behavioral things in UML2.0	[8]
Q3)	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 you 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	[6]
	b)	Explain the application of composite structure diagram.	[6]
	c)	What do you mean by an active class?	[6]
		OR	
Q6)	a)	Draw the class diagram for online Airline traffic management system	[8]
	b)	Explain the concept of Realization and Aggregation	[6]
	c)	How to draw object diagrams ?	[4]

SECTION II

Q7)	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 i) Composite State ii) Self transition iii) Sub State	[6]
	c)	How interaction overview diagram is related to activity diagram?	[4]
Q9)	a)	Explain the purpose of a component diagram with a example and neat diagram .	[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 3 tier client server for your college website.	[8]
Q11)	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]