

Total No. of Questions : 12]

SEAT No. :

P3429

[4959]-204

[Total No. of Pages : 3

B.E. (Computer Engineering)
OBJECT ORIENTED MODELING AND DESIGN
(2008 Course) (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 wherever 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 system? [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]

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- 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]

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 [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]

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]

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