

Total No. of Questions : 12]

SEAT No. :

[Total No. of Pages : 3

P596

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[4461] - 43

S.Y. M.C.A. (Engineering) (Semester - IV)
OBJECT ORIENTED ANALYSIS AND DESIGN
(2008 Course)

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Answers to the two sections should be written in separate 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) Explain in brief CORBA architecture. [6]
b) Write a short note on 4 + 1 view architecture. [6]

OR

- Q2) a) Explain the inception, elaboration, construction and transition phase. [6]
b) Explain architectural approaches of UML. [6]

- Q3) a) What is the difference between <<include>> and <<extend>> relationship? Explain with a suitable example. [6]
b) Comment: "the UML is a language for visualizing, specifying, constructing and documenting." [6]

OR

- Q4) a) Describe the primary differences between the structured analysis and object oriented analysis. [6]
b) Define profile. Explain its use with an example. [6]

- Q5) a) Define the scope of "Banking System" and draw class diagram for it. [6]

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- b) Explain dependency, generalization and association relationship in object Oriented modeling. [5]

OR

- Q6) a) Library system of a university is to be computerized. The member can be students, university departments and colleges affiliated to the university. The information about the available books should be available with all these members. The student has to return book within 15 days and is charged fine for the delay. Numbers of books that can be issued to him are restricted to five. If the books are not available or copies are not available, the member can issue the demand request which is used for procurement of books. Dealers send the list of new books which are categorized according to subject and subject wise list is then sending to respective department for approval. Approved book then procured. Model the system. Draw the class diagram. [6]
- b) Explain the composite structure diagrams with example. [5]

SECTION - II

- Q7) a) What is the need of interaction diagram? [6]
- b) Draw an Interaction overview diagram for simple sales process. Sales process consist of subprocesses like - Order Item, Search Item, Update, Modify, Cancel, Delete, Ordered Item, Delivery of Item etc. [6]

OR

- Q8) a) Compare sequence and communication diagram in four counts namely visual emphasis, freedom to represent objects information, the way sequencing is shown, The way iteration/looping is shown. [6]
- b) What are swimlanes and focus of control? [6]
- Q9) a) What is a sub state? Explain types of sub states. [6]
- b) Explain use of fork and join in activity diagram with an example system. [6]

OR

- Q10) a)** Explain concepts and notation through simple examples for following. [6]
Terms in UML :
- i) Activity
 - ii) Object flow
 - iii) Concurrent states
- b) What is timing diagram? Explain with suitable example. [6]

- Q11) a)** Explain forward and reverse engineering in component diagram. [6]
b) How UML is useful in embedded applications? [5]

OR

- Q12) a)** Write a short note on deployment diagram. [6]
b) Describe commercial application of UML. [5]

