

Roll No.

Exam Code : J-19

Subject Code—0427

M.C.A. (Fifth Year) EXAMINATION

(Batch 2009 Onwards)

(5 Years Integrated Course)

OBJECT ORIENTED DESIGN AND
MODELING

MCA-503

Time : 3 Hours

Maximum Marks : 70

Section A

Note : Attempt any *Seven* questions. **7×5=35**

1. Explain the concept of architecture framework.
2. How does an activity diagram differ from traditional flow chart ? Give the activity diagram for stock trading.
3. Discuss the importance of documentation in system design.

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4. Explain boundary condition for system designing.
5. Elaborate significance of Dynamic model with the help of an example.
6. Discuss the concept of Metadata.
7. Outline data flow diagram with the help of a suitable example.
8. How is functional model represented ?
9. Briefly discuss various tasks in management of data stores.
10. Describe domain analysis with the example of an ATM.

Section B

Note : Attempt all the questions.

11. Briefly discuss the following :
 - (i) Aggregation
 - (ii) Optimization
 - (iii) Robustness
 - (iv) Reusability.

Or

Explain Object Modeling. Discuss its significance in detail. **12**

12. Draw and explain and event diagram for dialing a phone number.

Or

What do you mean by Class ? Discuss various types of properties of an association. Explain by giving an appropriate example. **12**

13. Discuss the criteria to decompose a system into subsystems. How do you organize a system into partitions and layers ?

Or

Discuss the concept of inheritance and generalization with appropriate examples. How does they differ with each other ? **11**