

Roll No.

Subject Code—2089
M.C.A EXAMINATION

(Fifth Year)

(5Years Integrated Course)

**OBJECT ORIENTED DESIGN AND
MODELLING**

MCA-503

Time : 3 Hours *Maximum Marks : 100*

Note : Attempt any *Five* questions out of eight.
All questions carry equal marks.

1. Explain the concept of generalization and inheritance with example. Also discuss generalization as extension and restriction. 20
2. (a) What are events and states ? Discuss with proper diagram and examples. 10

- (b) What is Aggeration ? Explain in context with association and generalization. 10
3. What do you understand by dynamic modelling ? Explain its concept in detail. 20
4. (a) What is functional modelling ? Explain. 8
- (b) Discuss and explain data flow diagrams along with its components and suitable illustrations. 12
5. Write notes on the following : 10+10
- (a) Allocating subsystems to processors and tasks.
- (b) Management of data stores.
6. (a) "Object design is analogous to the preliminary design phase of traditional software development life-cycle." Comment. 8
- (b) Discuss the following : 12
- (i) Optimization
- (ii) Implementation of control.

7. (a) What do you mean by design of associations ? Discuss various types of associations. 8
- (b) Explain and discuss the implementation of object designs. 12
8. What do you understand by programming styles in object oriented design ? Explain in brief the various features for good object oriented programming style. 20