

Exam. Code : 206704

Subject Code: 8403

M.Sc. (Computer Science) Semester—IV  
**OBJECT ORIENTED MODELING, ANALYSIS &  
DESIGN**

Paper : MCS-403

Time Allowed—3 Hours]

[Maximum Marks—100

**Note** :— Attempt any **FIVE** questions. All questions carry equal marks.

1. What is the purpose of object modeling ? What types of constructs are used in object modeling ? Explain. 20
2. Discuss in detail the following :
  - (a) Collaborations
  - (b) Hierarchy Graphs
  - (c) Collaboration Graphs
  - (d) Subsystems.  $4 \times 5 = 20$
3. Draw class diagrams for Hotel Reservation System considering the following :
  - (a) Customers can make advanced booking or on the spot bookings.

- (b) Bookings may be of rooms or conference halls.
- (c) Prices are different for during and off season times.
- (d) Membership facility is also available with members offered privileged booking and special discounts.

4×5=20

- 4. Define and distinguish between Dynamic and Functional Modeling. 20
- 5. Discuss in detail object modeling. 20
- 6. Place the following event classes into a generalization hierarchy with inheritance of event attributes :  
Pick operation, Character input, Line pick, Circle pick, Box pick, Text pick event. 20
- 7. What are the various issues involved in implementation of the system ? Explain. 20
- 8. Write the criteria of evaluating quality of design mode. 20