

Exam. Code : 206704

Subject Code : 4116

M.Sc. Computer Science 4th Semester
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 Object-Orientation ? Discuss the basic concepts of the approach suitable for creating modern applications. 20
2. Write short notes on :—
 - (a) Packages
 - (b) Data Dictionary
 - (c) Object Navigation Notation. 6,6,8
3. What is the role of Dynamic Model ? Create a dynamic model for modelling an ATM machine. 5,15
4. Differentiate between :—
 - (a) Multiple inheritance and multi-level inheritance
 - (b) Dynamic model and functional model.
 - (c) Encapsulation and information hiding.
 - (d) Abstraction and generalization.
 - (e) Object and class. 5×4=20

5. Suppose you are to model the game of cricket. Create an object model corresponding to it. 20
6. Discuss Object meta modelling, meta data and meta models. 20
7. Explain the actions that need to be performed in system design phase. 20
8. Explain the functional model with the help of an example. 20