M.Sc. Computer Science 4th Sem. (Batch 2020-22)

OBJECT ORIENTED MODELING, ANALYSIS AND DESIGN

Paper—MCS-403

Time Allowed—3 Hours]　　　　[Maximum Marks—100

Note :—Attempt **FIVE** questions in all, selecting at least **ONE** question from each section. The **fifth** question may be attempted from any section. All questions carry equal marks.

SECTION—A

1. What is meaning and purpose of Object Modeling ? Which types of constructs are used in Object Modeling ?

2. Explain the relation and difference between the following :

   (a) Class and Object

   (b) Link and Association.

SECTION—B

3. Write short notes on the following :

   (a) Meta data

   (b) Meta models

   (c) Pseudo code

   (d) Object Navigation.

4. What is use of Functional modeling ? How DFD is helpful in functional modeling ? Draw a DFD for online admission process with your assumptions.

SECTION—C

5. What is Scenario in dynamic modeling ? What is use of Event trace diagram ?

6. How are object model, functional model and dynamic model related ?

SECTION—D

7. Which are various steps that need to be performed in System Design Phase ? Explain with an example.

8. Design a database for an online book store.

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