

Exam. Code : 206704

Subject Code : 4462

M.Sc. Computer Science 4th Semester

**OBJECT ORIENTED MODELING, ANALYSIS AND
DESIGN**

Paper—MCS-403

Time Allowed—2 Hours] [Maximum Marks—100

Note :— Attempt any four questions. All questions carry equal marks.

1. What is OMT methodology ? Which are various phases of OMT methodology ?
2. (a) What is Generalization ? Explain how generalizations are mapped to tables, with the help of an example.
(b) What is an association ? Which are different types of associations ?
3. (a) What is Metadata ? Explain Object meta modeling and functional modeling.
(b) Differentiate between a Sequence diagram and a Collaboration diagram.
4. (a) What is an object ? What do you mean by object ID ? What are its advantages ?
(b) Give an example of a class and class diagram.
5. (a) What is difference between aggregation and inheritance ? Explain with an example.
(b) What is use of data dictionary ?

6. What is an association ? Give few examples of each unary, binary and ternary associations from the real world.
7. What is system design ? During system design, which points must be considered when selecting an appropriate approach to data storage ?
8. (a) What is use of DFD ? Which are the guidelines to draw a good DFD ?
(b) What is need of Primary key and Foreign key ? Give an example of both.