Roll No ....

MCSE/MSE - 104

M.E./M.Tech., I Semester

Examination, June 2014

Object Oriented Technology

Time : Three Hours

Maximum Marks : 70

Note: Attempt any five questions. All questions carry equal marks.

1. a) Describe the concept of aggregation and generalization by giving suitable example.   7
   b) Explain the limitation of procedural programming. Also show these are overcome by object oriented programming with example.   7

2. a) Explain object oriented development life cycle.   7
   b) What is meant by association of objects? Describe about recursive and named association.   7

3. a) How translation is performed from the analysis model into design model during object design? Describe the object design process in detail.   7
   b) What do you understand by design optimization? Discuss its significance giving suitable example.   7

4. a) When will you make a function inline? Write the advantages and limitations of inline function. How does an inline function differ from a preprocessor macro?   7

   b) Explain the following terms: 7
      i)   Multiple Inheritance
      ii) Protected class member
      iii) Containership

5. a) What is the importance of virtual destructor? Give example to explain.   7
   b) Briefly describe the class hierarchy provided by C++ for stream handling.   7

6. a) Write down the procedure to translate the design into an implementation using inheritance.   7
   b) Differentiate between relational and object oriented databases with the help of example.   7

7. a) Discuss briefly the architecture of object oriented databases. Also describe in main features and applications.   7
   b) Give a brief note on query languages for object oriented database.   7

8. a) Describe in brief the need of formulative middleware standard like CORBA in distributed object oriented system.   7
   b) Write short notes: 7
      i)   Object Management Group
      ii) Gemstone.

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