Roll No ....

CS - 403

B.E. IV Semester

Examination, June 2014

Object Oriented Technology

Time : Three Hours

Maximum Marks : 70

Note: i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.

ii) All parts of each question are to be attempted at one place.

iii) All questions carry equal marks, out of which part A and B (Max. 50 words) carry 2 marks, part C (Max. 100 words) carry 3 marks, part D (Max. 400 words) carry 7 marks.

iv) Except numericals, Derivation, Design and Drawing etc.

Unit - I

1. a) Define abstract data types. 2
   b) What is the difference between the class and the object. 2
   c) Compare static and dynamic object. 3
   d) Explain the inline functions and situations where inline function may not work and why? 7

   OR

   What is constructor? List the properties of constructor function. 7

Unit - II

2. a) What is meant by association of objects? 2
   b) Explain about aggregation. 2
   c) Explain named association with example. 3
   d) Write comparison between associative aggregation and inheritance relationship. 7

OR

Draw class diagram for online course reservation system. 7

Unit - III

3. a) Discuss the role of inheritance in object oriented programming. 2
   b) Explain the disadvantages of multiple inheritance. 2
   c) Explain overloading with example. 3
   d) Explain the meaning of polymorphism. How is the polymorphism achieved at run time? Explain with coding. 7

   OR

   What are the different types of inheritance? Explain with example. 7

Unit - IV

4. a) What are container classes? 2
   b) Write short note on persistent objects. 2
   c) Briefly explain different types of container. 3
   d) Describe how files can be opened and closed explicitly in a program. 7

   OR

   Write in brief about stream and types of streams. Give name and description of various stream method. 7

Unit - V

5. a) Explain about JVM. 2
   b) What is the purpose of package? Name some packages. 2
   c) Compare features of C++ with JAVA. 3
   d) Write a program to find the number of and sum of all integers greater than 100 and less than 200 that are divisible by 7. 7

   OR

   Explain the interface concept in JAVA with examples. 7

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