

Roll No.

56052

**M.B.A. 2 Year 3rd Semester
(N.S.) Batch 2011-13**

**Examination-December, 2015
Object Oriented Analysis & Design**

Paper-MBA-313

Time : 3 hours

Max. Marks : 50

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard will be entertained after the examination.

Note : Section-A is **compulsory**. Attempt **one** question from each unit in Section-B.
All questions carry equal marks.

Section-A

1. (a) Distinguish between data abstraction and data encapsulation ?

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Unit-IV

- (b) Explain the difference between a public member and a private member of a class with the help of a C++ program.

8. What does inheritance mean in C++? What are the different forms of inheritances? Give an example of each. Describe the syntax of the single inheritance in C++.

9. (a) What is polymorphism? What are the types of polymorphism?

- (b) Explain the role-played by pointer in memory management. How is this achieved?

- (b) What are the advantages of operator overloading?
- (c) When does an ambiguity occur in multiple inheritances?
- (d) When do we declare a member of a class static?
- (e) What is data encapsulation?

Section-B

Unit-I

2. What are the unique advantages of an object-oriented programming paradigm?

3. (a) Discuss iteration and incrimination within the object-oriented paradigm.
- (b) Explain multiple inheritances in detail.

Unit-II

4. Explain object oriented systems development lifecycle.

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5. What is dynamic modelling? Discuss the purpose of dynamic modelling.

Unit-III

6. (a) What do you mean by overloading of a function? When do we use this concept? Explain with an example.

- (b) Write a program in C++ that consists of two classes, time 12 and time 24. The first one maintains time on a 12-hour basis, whereas the other one maintains it on a 24-hour basis. Provide conversion functions to carry out the conversion from object of one type to another.

7. (a) What is a friend function and when should a function be made friend? Also explain the merits and demerits of using friend functions.

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