

Roll No

IT - 303

B.E. III Semester

Examination, June 2014

OOPs Methodology

Time : Three Hours

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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 Data Abstraction and Encapsulation. 2
- b) What is Polymorphism? 2
- c) Explain the different types of Inheritance. 3
- d) What is the main drawback of structured programming? How OOP address this issue? State the merits and demerits of object oriented methodology. 7

Or

Explain the different types of constructors with suitable examples.

Unit-II

2. a) Define Classes, Methods and Objects. 2
- b) What is Garbage Collection? 2
- c) Define Aggregation. Distinguish between Composition and Aggregation. 3

- d) What is Static and Dynamic allocation? Discuss the dangers of Explicit Deallocation. 7

Or

What is Association? Explain the various forms of Association.

Unit-III

- a) What is message passing? 2
- b) Define Recursive association. 2
- c) How class and object is declared? 3
- d) Explain the parameter passing models briefly. 7

Or

Explain Object oriented programming languages with its features.

Unit-IV

- a) What is relationship between super classes and subclasses? 2
- b) Define Abstract base class. 2
- c) Explain multiple inheritance with its advantages and disadvantages. 3
- d) Explain access specifier briefly. What is access specifier and access modifier? 7

Or

Explain method overloading and method overriding with example.

Unit-V

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- a) Define destructors. 2
- b) What is friend function? 2
- c) Explain exception handling with each blocks. 3
- d) What is operator overloading? Write a C++ program to demonstrate operator overloading? 7

Or

Write a C++ program to concatenate two strings and compare two strings.
