



KA-3791

Second Year B. C. A. (Sem. III) Examination  
September / October - 2012  
305 - Object Oriented Programming

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

नीचे दशविंद निशानीवाणी विगतो उत्तरवही पर अवश्य दपवी.  
Fillup strictly the details of signs on your answer book.

Name of the Examination :  
Second Year B. C. A. (Sem. 3)

Name of the Subject :  
305 - Object Oriented Programming

Subject Code No. : 3 7 9 1 Section No. (1, 2,.....) : NIL

Seat No. : [ ] [ ] [ ] [ ] [ ] [ ]

Student's Signature

- (2) All questions are compulsory.  
(3) Figures to the right indicate full marks.

- 1 Answer any seven : 14
- What do you mean by Exception ? How it is achieved in oops ?
  - What do you mean by method overriding ?
  - Explain new and delete operator.
  - What are the advantages of cin and cout over scanf and printf respectively ?
  - List out the operators that are not overloaded by friend function.
  - List advantages of binary file.
  - What is an abstract class ? Explain with example.
  - What is inline function ? When it is used ?
  - What do you mean by method overriding ?
- 2 Do as directed : 14
- Write a note on inheritance. 7
  - How many arguments are required in the definition of an overloaded binary operator ? Why ? 7

OR

- 2 Do as directed : 14
- Explain virtual base class by giving example. 7

KA-3791]

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[Contd...

- (b) What is operator overloading ? Write rules for operator overloading. Give example. 7
- 3 Do as directed : 14
- (a) Explain about exception. Can we improve our S/W quality using exception handling ? Justify your answer. 7
- (b) How polymorphism is achieved at runtime and compile-time ? Give example of runtime polymorphism. 7

OR

- (b) Explain basic to class and class to basic type conversion. 7
- 4 Do as directed : 14
- (a) Differentiate Between overloading and overriding. Explain the concept of overriding with example. 7
- (b) What is inheritance ? Explain multiple and multilevel inheritance. 7

OR

- 4 Do as directed : 14
- (a) What is friend function explain it with example. 7
- (b) What is constructor ? Explain copy constructor and parameterized constructor. 7
- 5 Answer any two : 14
- (a) Write down the syntax for user defined manipulators. Design a single manipulator to provide the following output specification to print float values in following format :
- 12 column width
  - 4 digit precision
  - left justified
  - Filling unused spaces with '\_'
- (b) Create a class with at least two data members and overload << and >> operator.
- (c) Write a menu driven program to
- Create class Employee containing member variables like eno, name, and salary
  - Save data into file
  - Retrieve data from file
  - Give increment to employee (Overload + operator)

OR