



**A-3734**

**Second Year B.C.A. (Sem. III) Examination**

**March / April – 2015**

**Object Oriented Programming**

Time : 3 Hours]

[Total Marks : 70

**Instructions :**

(1)

नीचे दर्शावेक निशानीवाणी विगतो उत्तरवही पर अवश्य कजवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="SECOND YEAR B.C.A. (SEM. III)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="OBJECT ORIENTED PROGRAMMING"/>	<input type="text"/>
Subject Code No. : <input type="text" value="3"/> <input type="text" value="7"/> <input type="text" value="3"/> <input type="text" value="4"/>	<input type="text" value="Student's Signature"/>
Section No. (1, 2,...): <input type="text" value="Nil"/>	

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

1 Answer any Seven : 14

- (1) How scope resolution operator used in different ways in object oriented programming?
- (2) Which operator cannot be overloaded as member and friend function?
- (3) Which are the different methods to open the file?
- (4) Define static data member & function.
- (5) What is function overloading?
- (6) Which are the various methods which cannot call through the object and how to call those methods?
- (7) Differentiate between seekg( ) and seekp( ).
- (8) When to make function as inline?
- (9) How the constructor is called in multilevel inheritance?

2 Do as directed 14

- (A) In which circumstances function can be made as friend? 7  
Write the advantage of friend function. Demonstrate example of friend function.

- (B) Differentiate between call by value and call by reference with example. 7
- OR**
- 2** **14**
- (A) Explain exception handling mechanism. 7
- (B) Explain ambiguity for hybrid inheritance with example. 7
- 3** Answer the following(Any Two) **14**
- (A) What is constructor? Explain copy and parameterized constructor.
- (B) How do the properties of following two derived class differ
- (i) Class D1:private B,public C {.....};
- (ii) Class D2:protected B,private C {.....};
- (C) Write a program to convert time duration in terms of minutes to TIME class where TIME class contains hours and minutes.
- 4** Do as directed [ Any two] **14**
- (A) Differentiate between multilevel and multiple Inheritance.
- (B) Explain object as function argument and returning object.
- (C) Differentiate between Unary and Binary operator overloading.
- 5** Answer the following (Any two) **14**
- Create binary file for class student whose data members are studid.
- (A) name, total and percentage write a program to copy the contents of this file to another file whose percentage is less than 50
- (B) Write a program to convert dollar to rupees using class to class conversion technique.
- (C) Define user define manipulator. Explain purpose of manipulators.
- Create User Define Manipulators for the following
- 15 column width
  - 4 digit precision
  - Left justified
  - Filling unused space with '+'
  - Trailing zeros shown