

**Second Year B.C.A. (Sem. III) Examination**  
**March / April - 2015**  
**Object Oriented Programming**

Time : 3 Hours]

[Total Marks : 70

**Instructions :**

(1)

नीचे दशांशों में निशानोंवाणी विगतो उत्तरपत्री पर अवश्य दधवी. Fillup strictly the details of signs on your answer book.		Seat No. :
Name of the Examination :		
SECOND YEAR B.C.A. (SEM. III)		
Name of the Subject :		
OBJECT ORIENTED PROGRAMMING		
Subject Code No. :	3 7 3 4	Section No. (1, 2,.....) :
		Nil
		Student's Signature

(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