



ML-3734

**Second Year B.C.A. (Sem. III) Examination**  
**October / November – 2015**  
**Object Oriented Programming**  
**(New & Old)**

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

नीचे दशांशक निशानीवाणी विगतो उताशवडी पर अवश्य दामवी. 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 (NEW &amp; OLD)"/>	<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"/>	Section No. (1, 2,....): <input type="text" value="Nil"/>
Student's Signature	

(2) All questions are compulsory.

(3) Figures to the right indicate full marks.

- 1 Answer in short : 10
- 1 What is the use of destructor? How is it created?
  - 2 What is abstract class? What is use of it?
  - 3 Give the difference between tellp() and tellg() function in random access file?
  - 4 When to make function as inline?
  - 5 What is the use of new operator?
  - 6 What is containership?
  - 7 Explain any two manipulator functions with example.
  - 8 Which method cannot call through an object?
  - 9 What are the advantages of cin and cout compared to printf and scanf?
  - 10 What are the uses of scope resolution operator?

- 2 Do as directed : 15
- (A) List out the features of Object Oriented Programming. Explain any two of them.
- (B) What do you mean by object as function argument? Explain pass by value and pass by reference with example

OR

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[Contd...

- 2 (A) Explain constructor. Explain parameterized and default constructor with example. 8  
(B) What is hybrid inheritance? How ambiguity in hybrid inheritance can be removed? 7
- 3 Answer the following : (Any Two) 15  
(A) Explain exception handling with proper example.  
(B) Why we have to make the function as 'friend'? Write the advantages of friend function.  
(C) When we can use virtual base class? How is it different from virtual function?
- 4 Do as directed : 15  
(A) What are the different methods to open a file? 5  
Explain with proper example.  
OR  
Explain READ() and Write() function with example.  
(B) Write down the syntax for user defined manipulators. 5  
Design a single manipulator to provide the following output specifications for printing float values :  
(i) 10 column width  
(ii) 2 digit precision  
(iii) Left justified  
(iv) Filling unused spaces with  
(v) Trading Zeros  
(C) Explain memory management operators with example. 5
- 5 Answer the following : (Any two) 15  
(A) 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 (Make use of Overload + operator)

(B) Define a class to represent a bank account for handling for 10 customers which consist of Name of depositor, Account number, Type of account, Balance amount.

Write a program to perform the following operations :

(i) To assign initial values

(ii) Overload '+' operator to deposit an amount

(iii) Overload operator to withdraw amount  
(checking minimum balance)

(iv) To display all customers having balance > 15000

(C) Design two classes to support following type conversions :

Rupee R;

Dollar D;

$D = R$ ; Converts Rupee to dollar

Write a program to carry out this conversion.