



EN-3734

Second Year B. C. A. (Sem. III) Examination
October / November - 2016
305 : Object Oriented Programming

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

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

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

1 Answer any ten :

10

- (1) What is dynamic binding ?
- (2) What is an abstract class ?
- (3) What is reference variable ?
- (4) The two major component of object are ____ and ____.
- (5) List out the operators that cannot be overloaded.
- (6) What is the difference between private and protected visibility modes ?
- (7) What is stream ?
- (8) State the difference between ios::app and ios::ate mode.
- (9) Explain the limitation of inline function.
- (10) What is difference between 'delete a' and 'delete [ja' ?
- (11) State difference between *showpos* and *showpoint*.

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[Contd...

- 2 Do as directed : 15
- (a) Explain different visibility modes with example. 7.5
- (b) List out basic concepts of OOP. Explain any two in brief. 7.5

OR

- 2 (a) List memory management operators. Point out reasons why using new is better idea than using malloc() ? 7.5
- (b) Explain Array of objects with example. 7.5

- 3 Do as directed : 15
- (a) What is conversion function ? Explain with example.
- (b) Define constructor. Explain parametrized constructor with example.

OR

- 3 (a) In which circumstances function can be made as friend ? Write the advantage of friend function. Demonstrate one example of friend function. 7.5
- (b) What is inheritance ? Explain multilevel inheritance with example. 7.5

- 4 Attempt any two : 15
- (a) Differentiate between unary and binary operator overloading.
- (b) Explain different file opening modes.
- (c) Define run time errors. Explain run time error in detail.
- (d) How runtime polymorphism is achieved in C++ ? Explain with example.

5 Attempt any two :

15

- (a) Create a class with at least two data members. Write a program in C++ to overload >> and << operator.
- (b) Write a C++ program to consider Rollno, Name and Marks in C++ as data members. Take suitable member functions which provide functionality of input and display data. Class should be capable to keep information for 5 students.
- (c) Design single manipulators to provide the following output specification for printing float value :
 - (1) 10 column width
 - (2) 3 digit precision
 - (3) Left justified
 - (4) Filling unused space with '#'
 - (5) Display the trailing zeros
 - (6) Display sign of number.

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[4000]