

Roll No. ....

[ 2 ]

BCA-301(N)

# BCA-301(N)

## B. C. A. (Third Semester) EXAMINATION, Dec. 2016

(New Course)

Paper First

### OBJECT ORIENTED PROGRAMMING USING C++

Time : Three Hours ] [ Maximum Marks : 75

Note : Attempt questions from all Sections as directed.

Inst. : The candidates are required to answer only in serial order. If there are many parts of a question, answer them in continuation.

Section—A 9×3=27

(Short Answer Type Questions)

Note : Attempt all questions.

1. (A) What is object oriented language ? How is it different from procedure oriented language ?
- (B) Explain static data members and static member functions.
- (C) What are Constructors ? Explain different constructors.

- (D) Explain function overloading with the help of an example.
- (E) Discuss Inheritance.
- (F) What are data abstraction and data hiding ?
- (G) Write a program in C++ to overload unary operator using friend function ?
- (H) Discuss Exception Handling Mechanism.
- (I) Write a short note on various file opening modes.

Section—B 12×2=24

(Long Answer Type Questions)

Note : Attempt any two questions.

2. Define a class to represent a book in library. Include the following members :

Data Members : Book number, Book name, Author, Publisher, Price, No. of Copies, No. of copies issued.

Member Functions :

- (i) To assign initial values
  - (ii) To issue a book after checking for its availability
  - (iii) To return a book
  - (iv) To display book information
3. What is operator overloading ? Why is this concept used in C++ ? WAP in C++ to overload binary operator using normal functions ?
  4. Discuss the basic concepts of object oriented programming.
  5. What is Pointers ? Discuss this pointer with suitable example.

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Section—C

2×12=24

(Long Answer Type Questions)

Note : Attempt any two questions.

6. Discuss the terms : Public, private, protected with the help of an example.
7. What are Templates ? Explain function templates and class templates with suitable example.
8. Write a short note on stream classes in C++.
9. Explain the process of opening a file.

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