

No. of Printed Pages : 03

Roll No. ....

**D-215**

**B.C.A. EXAMINATION, May 2017**

(Fourth Semester)

(B. Scheme) (Main & Re-appear)

BCA

BCA-210-B

Object Oriented Programming

*Time : 3 Hours]*

*[Maximum Marks : 75*

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Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

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**Note :** Attempt *Five* questions in all, selecting at least *one* question from each Section. All questions carry equal marks.

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P.T.O.

## Unit I

1. What is an Object Oriented Programming Approach ? Discuss the different characteristics of Object Oriented Language. **15**
2. (a) What are the data types supported by C++ ? Explain hierarchy of data types in C++ ?  
(b) Discuss the benefits of Object Oriented Programming.

## Unit II

3. Explain the difference between :
  - (a) Public and Protected Access Specifier
  - (b) Constructor and Destructor
  - (c) Classes and Objects.
4. Explain the following with the help of examples in C++ :
  - (a) Copy constructor
  - (b) Static Member
  - (c) Parameterized Constructor.

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## Unit III

5. What is Inheritance ? What are the different types of inheritance supported by C++ ? Explain the concept of single inheritance with the help of example in C++ ?
6. Why do you require friend class and friend function ? Give an example to prove that the friendship is neither inherited nor transitive.

## Unit IV

7. What is an exception ? How is an exception handled in C++ ? What are the advantages of using exception handling mechanism in a program ?
8. What are File Pointers ? Discuss the default actions on the file pointers while opening a file. Also discuss the functions that manage the movement of file pointer to any desired position inside the file.

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