1229

# BCA / D-18

## OBJECT ORIENTED PROGRAMMING USING C++

### Paper-BCA-231

*Time allowed : 3 hours]* [*Maximum marks : 80*

*Note : A candidate will be required to answer five questions in all, selecting **one** question from each unit in addition to compulsory Question No. 1.*

### Compulsory Question

1. (a) Differentiate between Call by Value & Call by Reference.

   (b) Differentiate between Object Oriented Programming & Procedure Oriented Programming.

   (c) Explain Inline Function ?

   (d) Explain Default Constructor.                4×4=16

### Unit–I

2. (a) Explain Scope Resolution Operator and its significance with example.                8

   (b) What do you mean by Static Member functions ? How can you access it ? Explain it by giving example.        8

3. Write short note on following :                16

   (a) Encapsulation

1229

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(b)  Class and Objects

(c)  Static Data members

(d)  Nested Class

## Unit-II

4.  Explain Constructor Overloading and constructor with default arguments by giving example ?                    16

5.  (a)  Explain the formatted I/O Operations ?              8

    (b)  What is the difference between Copy constructor & Parameterized Constructor ?                    8

## Unit-III

6.  Explain the following:                    16

    (a)  Strcmp()

    (b)  Strlen()

    (c)  Strrev()

    (d)  strupr()

7.  (a)  What is a Pointer ? Illustrate with example ?        8

    (b)  Explain New operator with example.                8

## Unit-IV

8.  What is Operator Overloading ? What are its rules ? Write a program to overload Binary (+) operator.              16

9.  What is Function Overloading ? What are its benefits ? Explain it with example.                    16

1229