B.C.A. (Sem. II)   OOPC

BCA Second Semester Examination – May 2016
SECOND PAPER
Object Oriented Programming Concepts
Paper Code:-2711

Time Allowed: Three Hours   **Maximum Marks.70**

No supplementary answer book will be given to any candidate. Hence the candidates should write the answers precisely in the main answer book only.

(Attempt all six questions.)

Part I (Question No. 1& 2) is compulsory & Part II (Question No. 3, 4, 5 & 6) has internal choice.

PART-I

1. Answer any ten questions. Each question carries 1 mark.   10x1= 10
   (Words limit up to 20 words each)
   a) What are the basic concepts of OOPs?

   b) What is a Class?

   c) What are tokens in C++?

   d) What are the operators available in C++?

   e) What is Dynamic Binding?

   f) What is an Inline Function?

   g) What is Copy Constructor?

   h) What is Class Templates?

   i) What is Pure Virtual Function?

   j) What is Public Class?

   k) What is Static Data Member?

   l) What are Friend Functions?

2. Answer all the questions. Each question carries 5 marks.   4x5 = 20
   (Words limit up to 50 words each)
   a) Explain the advantages of OOPs.
   b) Explain copy constructor with example.
   c) Write short note on polymorphism.
   d) Explain the following:
      i) Inheritance
      ii) Type Conversions

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PART-II

Unit-I

3. (i) Explain characteristics of procedure oriented language. 7

   (ii) What do you mean by Enumerated Data type? 3

OR

   Write a program in C++ to find given number is prime or not prime. 10

Unit-II

4. Explain constructor with suitable example. 10

OR

   Write a program to add two matrix using the constructor. 10

Unit-III

5. Explain the rules for operator overloading. 10

OR

   What is Polymorphism? Explain the different types of Polymorphism. 10

Unit-IV

6. (i) What are Exceptions? What are the two types of exceptions? Explain Exception handing model. 6

   (ii) Write an Example program for class template. 4

OR

   Explain the following file functions with example. 10
   a) f open ( )
   b) f close ( )
   c) f getw ( )
   d) f seek ( )

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