BACHELOR OF COMPUTER APPLICATION II YEAR EXAMINATION, 2010

Paper — BCAD-302

OBJECT ORIENTED PROGRAMMING IN C ++

Time : 2½ Hours   *Maximum Marks : 70*

(Write your Roll No. at the top immediately on receipt of this question paper.)

Answer all Sections as per instructions given in each Section .

SECTION - I   (1 × 10 = 10)

Answer ALL questions.

Choose the correct option.

1. What is the only function all C ++ programs must contain ?

   a) start( )

   b) System( )

   c) Main( )

   d) Program( )

                                        P.T.O.

2. What punctuation is used to signal the beginning and end of code blocks ?

   a) {}

   b) -> and <-

   c) BEGIN and END

   d) (and)

3. Which of the following is a correct comment ?

   a) */Comments*/

   b) ** Comment **

   c) /* Comment */

   d) {Comment}

4. Which of the following is **not** a correct variable type ?

   a) Float

   b) real

   c) int

   d) double

5. Which of the following is the correct operator to compare two variables?

   a) :=

   b) =

   c) equal

   d) ==

DL-30   2   contd.

6. Which of the following is the Boolean operator for logical-and ?

   a)   &
   b)   &&
   c) |
   d) |&

7. Evaluate ! (1 &&!(0||1)).

   a) True
   b) False
   c) Unevaluatable

8. Which of the following statement is true regarding Cin statement ?

   a) Cin statement must contain a variable preceded by >> operator
   b) Cin does not process the input until user presses RETURN key
   c) you can use more than one datum input from user by using cin
   d) all of the above

9. When requesting multiple datum, user must separate each by using

   a) a space
   b) a tab character
   c) a new line character
   d) all of the above

DL-30   3   P.T.O.

10. A derived class

    a) Inherits data members and member functions from base class.

    b) Inherits constructors and destructor

    c) Object can access protected members with the dot operator.

    d) Inherits data members and member functions from base class as well as inherits constructors and destructor.

SECTION - II   (6 × 5 = 30)
Answer any SIX questions.

11. Explain the differences between C and C++.

12. What do you mean by function overloading ? Name all the operators that cannot be overloaded.

13. What are Constructors ? Explain the various types of constructors.

14. Explain the term data abstraction and encapsulation.

15. What is the need of friend function ? Explain with the help of a program.

DL-30   4

16. How dynamic binding is achieved in C++ ?

17. Write a program in C++ to find the average of 10 numbers.

18. Write a program in C++ to find the roots of a quadratic equation.

SECTION - III $(3 \times 10 = 30)$

Answer any THREE questions.

19. Give the advantages and applications of OOPs concept.

20. Explain the various logical operators available in C++

21. Write a program to explain the concept of multiple inheritance in C++.

22. Write a program to overload + operator

23. Explain any *two* of the following:

   a) Pure virtual functions

   b) Destructors

   c) Inline functions

   d) Type conversions