Roll No. ....   Total Pages : 3

BCA/D-14   **1018**

INTRODUCTION TO OBJECT-ORIENTED
PROGRAMMING
Paper : BCA-351

Time : Three Hours]   [Maximum Marks : 80

Note : Attempt *five* questions in all. Question No.1 is compulsory. Attempt *four* questions more selecting *one* question from each unit.

Compulsory Question

1. Answer the following questions in brief :

    (a) How can you access members from the outside of a class?

    (b) Explain the concept of namespace in C++.

    (c) Distinguish between get() and getline() functions.

    (d) What are 'ws' and 'ends' manipulators?

    (e) How can you read and write a string in C++?

    (f) Distinguish between "struct' and "class" in C++.

    (g) What do you mean by associtivity of an operator? Give *two* examples.

    (h) What are the rules to decide whether a function is inline or not?   (2×8=16)

UNIT–I

2. (a) What are Pre-processor directives? Explain any *four* pre-processor directives.   8

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(b) Write a structure for Book in C++ and demonstrate its use.   8

3. (a) What is Static data member? Explain with an example.   8

    (b) What is Object-oriented programming? What are its benefits?   8

UNIT–II

4. (a) What is Copy constructor? Explain it by giving a suitable example.   8

    (b) What is Destructor? Compare its features with a normal member function.   8

5. (a) What is 'ios' stream class? Explain its width(), precision() and setf() functions.   8

    (b) What are flags of 'ios' class? How can you use them to display trailing zeros and plus sign?   8

UNIT–III

6. (a) What is friend function? Explain its need.   8

    (b) Explain the functions for string concatenation and string copy by giving examples.   8

7. (a) How can you allocate and de-allocate memory to objects dynamically? Explain with an example.   8

    (b) How can you pass parameters to a function by using reference? Explain with an example.   8

UNIT–IV

8. (a) What do you mean by Precedence of operator? Discuss the precedence order of arithmetic operators of C++. 8

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(b) What is Operator overloading? Overload '+' operator to add two matrices.   8

9. (a) Distinguish between Inline and External linkage functions.   8

    (b) What are Inline functions ? How can you create them ?   8