Roll No. ☐☐☐☐☐☐☐☐☐☐☐☐   **Total No. of Pages : 02**

Total No. of Questions : 07

B.Sc.(IT) (Sem.–3)
PROGRAMMING IN C++
Subject Code : BS-205
Paper ID : [B0411]

Time : 3 Hrs.   **Max. Marks : 60**

INSTRUCTION TO CANDIDATES :
1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains SIX questions carrying TEN marks each and a student has to attempt any FOUR questions.**

SECTION-A

Q1. Write a short note on the following :

1. Virtual destructor

2. Overloading

3. Abstract class

4. Default arguments

5. New and delete

6. Register variables

7. Inline function

8. Macro

9. Call by Reference

10. Early binding

SECTION-B

Q2 a. What are the advantages of using object oriented technologies over structured programming? Discuss in detail.

   b. What are various kinds of loop statements supported by C++? Explain the functioning of each one with suitable example.

Q3 a. Write a program in C++ to generate Fibonacci series up to number n using recursion. (Series 1, 1, 2, 3, 5, 8,....n).

   b. What is the role of friend function and friend class? Write suitable C++ code in support of arguments.

Q4. Using multidimensional array develop a class Matrix for integers in C++. Class must have all possible constructor and destructor functions to create matrix object. Also show usage of Matrix objects in main function.

Q5. What do you understand by single inheritance, multiple inheritances and multilevel inheritance? Assume classes and Show these diagrammatically and write C++ code in support of your understanding.

Q6 a. Explain the role of constructor and destructor functions in a C++ class by consider a suitable example and also tell a class can have maximum of how many constructor and destructor functions.

   b. What do you understand by the concept call by value and call by reference? Also differentiate between them with example in C++-

Q7. Create a class Employee having various properties, Empno., Name, Department, Designation and Salary. And write a program using feature of C++ to read the information of all the Employees of a Computer Department of XYZ company from keyboard and store that information of in a data file.

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