Bachelor of Science (B.Sc.-II) (CBCS Pattern) Third Semester CBCS
USCST06-Computer Science Paper-II : Object Oriented Programming With C++

P. Pages : 2
Time : Three Hours

GUG/W/18/11603
Max. Marks : 50

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Notes :   1.   All questions are compulsory and carry equal marks.

1.   Either:

    a)   What is Function? Explain Function Prototyping in C++.   **5**

    b)   Explain the function overloading for addition of 2 numbers with the combination of real and integer data type.   **5**

OR

    c)   What do you mean by inline function? Differentiate between normal function and inline function.   **5**

    d)   Explain the difference between call by value and call by reference with suitable example.   **5**

2.   Either:

    a)   Differentiate between procedural programming and object oriented programming.   **5**

    b)   Explain the following with suitable example.   **5**
        i)   Class   ii)   Object

OR

    c)   What are static data members? Explain the advantages of static data members and member functions.   **5**

    d)   Distinguish between private and public access specifier.   **5**

3.   Either:

    a)   What is constructor? Explain multiple constructor with example.   **5**

    b)   What is operator overloading? Explain with suitable example.   **5**

OR

    c)   Explain derived class with suitable example.   **5**

    d)   Write a note on: **5**
        i)   Multiple inheritance   ii)   Multilevel inheritance

4. Either:

    a)   Write a note on open( ) function in file handling.   **5**

    b)   Write a program to demonstrate pure virtual function.   **5**

OR

    c)   Write usage of new and delete operator using suitable program.   **5**

    d)   What do you mean by Friend Function? What are the rules for Friend Function.   **5**

5. Attempt all the questions.

    a)   Write a C++ program to determine given number is prime or not.   **2½**

    b)   How to create objects in C++.   **2½**

    c)   Write a note on const. objects.   **2½**

    d)   What does the term $**j$ means.   **2½**

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