

B.Sc. (Part-II) (CBCS Pattern) Sem-III
USCST06 - Computer Science Paper- II :
Object Oriented Programming With C++

P. Pages : 2

Time : Three Hours



GUG/W/22/11603

Max. Marks : 50

Note : All questions are compulsory and carry equal marks.

Either:

1. a) Explain the concept of default arguments with suitable example. 5
- b) Write a program in C++ that will accept the temperature in Celsius and display it in Fahrenheit. 5

OR

- c) Write a program to find the sum of even numbers among first N natural numbers. 5
- d) Explain call by value and call by reference with suitable example. 5

Either:

2. a) Explain any three features of object oriented programming supported by C++. 5
- b) Explain the definition of member function outside the class with suitable example. 5

OR

- c) Explain the concept of array of objects with suitable example. 5
- d) Explain nesting of member function with suitable example. 5

Either:

3. a) What is default constructor? Give its syntax. 5
- b) Discuss unary operator overloading with suitable example. 5

OR

- c) Explain copy constructor with suitable example. 5
- d) Define inheritance. Explain single inheritance with suitable example. 5

Either:

4. a) Explain different “file modes” in file handling available in C++. 5

- b) Explain & and * operators. Explain how following expressions will be evaluated. **5**
- i) * P ++
 - ii) ++ * P

OR

- c) What is a file pointer? Explain getc() and putc() function. **5**
- d) Write usage of new and delete operator using suitable program. **5**

5. Solve all the questions.

- a) Explain function prototyping with suitable example. **2½**
- b) Explain array within class with suitable example. **2½**
- c) List the rules for operator overloading. **2½**
- d) Write a note on 'this' pointer. **2½**
