

CS 303 - Object Oriented Programming

P. Pages : 2

Time : Three Hours



GUG/W/16/3698

Max. Marks :80

- Notes :
1. All questions carry equal marks.
 2. Due credit will be given to neatness and adequate dimensions.
 3. Illustrate your answers wherever necessary with the help of neat sketches.

1. a) Explain features of object oriented programming. **8**
b) Explain the concept of switch case by giving syntax and example. **8**

OR

2. a) Explain by giving syntax. **8**
i) Simple if
ii) If else
iii) Else if ladder
iv) Nested if else
b) Explain by giving syntax. **8**
i) While loop
ii) Do while loop
iii) For loop
3. Implement the following by Writing separate main () for each. **16**
i) Void add (int a, int b)
ii) Void subtract (Void)
iii) Int multiply (Void)
v) Float divide (float x, float y)

OR

4. a) Explain with syntax and example. **8**
i) Default arguments
ii) Function overloading.
b) Write short notes on friend function along with program code. **8**
5. a) Explain the concept of constructor in derived class with suitable program code. **8**
b) Implement operator – () using the concept of unary operator overloading. **8**

OR

6. a) Write code for converting Basic type to class type and explain it **8**
class name : Distance
Data members : Km, m
b) Write short notes on different types of Inheritance. **8**

7. a) Explain "This" pointer with suitable program code. 8
b) Explain pointer to objects with suitable program code. 8

OR

8. a) Write short notes on compile time and Run time polymorphism. 8
b) Explain Virtual functions and its use along with suitable program code. 8
9. a) Explain the concept of class and function template by giving suitable program code. 8
b) Explain different library function which are used in file processing in C++ 8

OR

10. a) Write a program to implement Binary files. 8
b) Explain following with example. 8
i) ios::in
ii) ios::out
iii) ios::ate
iv) ios::binary
