

B.E. Information Technology Fifth Semester  
**IT503 - Object Oriented Programing**

P. Pages : 2

Time : Three Hours



**GUG/W/18/1638**

Max. Marks : 80

- Notes :
1. Same Answer book must be used for all question.
  2. All questions carry equal marks.
  3. Due credit will be given to neatness and adequate dimensions.
  4. Assume suitable data wherever necessary.
  5. Illustrate your answers wherever necessary with the help of neat sketches.

1. a) What are the basic different between, procedure oriented programming language and object oriented programming language. 8

b) What are the different data type of C++ ? Explain in details. 8

**OR**

2. a) Write short notes on : 8

i) Setw( )

ii) Setfill( )

iii) Setprecision ( )

with example.

b) Write a program to find temperature in Fahrenheit for a given temperature in Celsius. 8

3. a) What is constructor ? What are the rules for creating constructor. Explain different type of constructor. 8

b) Write a program to find reverse of number and also check whether given number is palindrome or not. 8

**OR**

4. a) What are the different between structure and class ? Explain with example. 8

b) Define an array of 10 Elements. Write a complete program to sum all array elements and display the final value on screen. 8

5. a) What is function overloading ? What are the rule to define function overloading. Give suitable example. 8

b) Write a program to add two complex number by using operator overloding concept (e.g. :  $2 + j3 + 4 + j5 = 6 + j8$ ) 8

**OR**

6. a) Write a program to calculate the area of circle, rectangle and triangle using function overloading. 8
- b) Write a program to swap two integer value of using friend function. 8
7. a) Write short notes on : 8
- i) Single level inheritance.
- ii) Multiple inheritance.
- b) Explain hierarchical inheritance with suitable example. 8
- OR**
8. a) Explain in details pure virtual function with suitable example. 8
- b) What is Abstract class. Write a suitable example to implement a abstract class. 8
9. a) Write a program to copy the contents of one file and store on another file. 8
- b) Write a function template to swap the integer and float value. 8
- OR**
10. Explain exception handling concept. What are the different keywords used to handle exception handling ? Give any example to handle array out of bound exception. 16

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