

B.E. Computer Science & Engineering Third Semester CBS-Old
CS 303 - Object Oriented Programming

P. Pages : 2

Time : Three Hours



GUG/W/18/1474

Max. Marks : 80

- Notes :
1. Same answer book must be used for all questions.
 2. All questions carry equal marks.
 3. Due credit will be given to neatness and adequate dimensions.
 4. Assume suitable data wherever necessary.

1. a) What is object oriented programming language ? Explain their features in details. 8
b) Explain all the data type of object oriented programming language C++ with their byte and range. 8

OR

2. a) Explain the following conditional statements. 8
i) "if"
ii) "if-else"
iii) Ternary operator
b) Explain the concept of "switch-case" by giving syntax and example. 8
3. a) Explain inline function with program code. 8
b) Write a program to print student name, age and mobile no by using class and object. 8

OR

4. a) What is function overloading ? What are rules for implementing function overloading ? Give any example. 8
b) What is 'Reference variable' ? Explain reference variable with example. 8
5. a) What is constructor ? Explain type of constructor. 8
b) Explain in detail "New" operator with example. 8

OR

6. a) What is "static" keyword ? What are the advantages of static keyword ? Explain with example. 8
b) Write a C++ program to add two complex number using operator overloading technique. 8
[e.g. : $2 + j3 + 4 + j2 \cong 6 + j5$]
7. a) What is multiple inheritance ? Explain multiple inheritance with example. 8

- b) How to overcome ambiguities error developed in hybrid inheritance ? Justify. 8

OR

8. a) Explain pointer to objects with suitable program code. 8
- b) Explain virtual function and its use along with suitable program code. 8
9. a) Explain the following library function with example. 8
- i) `fopen ()` ii) `fclose ()`
- b) Write a program to append the contents of one file into another file by using file structure. 8

OR

10. a) What is Template ? Explain function template with example. 8
- b) Using the concept of template class, write a program to implete stack for integer & float value. 8
