

B.E. Computer Science & Engineering (Model Curriculum) Semester - IV  
**SE204CS - Object Oriented Programming**

P. Pages : 2

Time : Three Hours



**GUG/S/23/13809**

Max. Marks : 80

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- Notes :
1. All questions are compulsory.
  2. All questions carry equal marks.
  3. Due credit will be given to neatness and adequate dimensions.
  4. Assume suitable data wherever necessary.
  5. Diagrams and Chemical equation should be given wherever necessary.
  6. Illustrate your answers wherever necessary with the help of neat sketches.

1. a) What are the features of object oriented programming language? **8**
- b) What is mean by Reference variable? Explain with example. **8**

**OR**

2. a) Explain the following manipulator function. **8**
- i) Setw( ) ii) Setfill( )
- iii) Setprecision( ) iv) endl
- b) What are the difference between procedural language and object oriented programming. **8**
3. a) Explain inline function with program code. **8**
- b) Define a function volume to calculate the volume of cube, volume of rectangle, volume of cylinder by using function overloading concept. **8**

**OR**

4. a) Write and explain a C++ program to demonstrate Array of objects. **8**
- b) Explain in details. **8**
- i) Call-by-Reference
- ii) Call-by-Value
5. a) Write a C++ program to create a class employee. Assume suitable data members with default constructor. Display employee details. **8**
- b) Explain operator overloading with suitable program code. **8**

**OR**

6. a) Explain the use of Dynamic constructors and copy constructors with example. **8**

