



**B.E DEGREE EXAMINATIONS:DEC 2014**

(Regulation 2013)

Third Semester

**COMPTER SCIENCE AND ENGINEERING**

U13CST304:Object Oriented Programming with C++

**Time: Three Hours**

**Maximum Marks: 100**

**Answer all the Questions:-**

**PART A (10 x 1 = 10 Marks)**

1. The insulation of data from direct access by the program is called as
  - a) Encapsulation
  - b) Data hiding
  - c) Private
  - d) Global
2. In C++, you use \_\_\_\_\_ to perform standard input and output operations.
3. A static function
  - a) should be called when an object is destroyed.
  - b) is closely connected to an individual object of a class.
  - c) can be called using the class name and function name.
  - d) is used when a dummy object must be created.
4. \_\_\_\_\_ provide the interface between the object's data & the program
5. Which of the following unary operators can be overloaded?
  - 1) true
  - 2) false
  - 3) +
  - 4) new
  - 5) is
  - a) 1, 2, 3
  - b) 3, 4, 5
  - c) 3 only
  - d) 5 only
6. A \_\_\_\_\_function is that which does not belong to the class still has complete access to the private data members of the class.
7. Function templates can accept
  - a) any type of parameters
  - b) only one parameter
  - c) only parameters of the basic type
  - d) only parameters of the derived type
8. Run time polymorphism can be implemented using \_\_\_\_\_



b) Explain what static variable is. Write a C++ program to count the occurrence of digits in numbers that you are entering using class and static variable.

24. a) Explain about type conversions and its types with examples. Convert the object of time in hh.mm.ss format to 24 hrs time format.

**(OR)**

b) Explain what inheritance is and discuss the types with suitable diagrams and examples.

25. a) (i) Discuss C++ files and streams (7)

(ii) Write a program to open a file in C++ "Hello.dat" and write (7)

"This is only a test"

"Nothing can go wrong"

"All things are fine..."

into the file. Read the file and display the contents.

**(OR)**

b) Discuss the concept of exception handling in detail. Write a program to raise an exception if the user enter vowels.

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