



Register Number:.....

**B.E DEGREE EXAMINATIONS: JUNE 2015**

(Regulation 2013)

Fifth Semester

**ELECTRICAL AND ELECTRONICS ENGINEERING**

CSE103:Object Oriented Programming & C++

**Time: Three Hours**

**Maximum Marks: 100**

**Answer all the Questions:-**

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

1. Object based languages exclude the properties of -----
  - a) Inheritance & Message Passing
  - b) Inheritance & Abstraction
  - c) Dynamic binding & Inheritance
  - d) Encapsulation & Dynamic binding
2. Code redundancy can be eliminated by-----
  - a) abstraction
  - b) encapsulation
  - c) inheritance
  - d) Message passing
3. How will you call the member function using object
  - a) Using '+' operator
  - b) Using '.' operator
  - c) Using '-' operator
  - d) Using '>' operator
4. You can read input that consists of multiple lines of text using
  - a) the cin.get( ) function with one argument.
  - b) the cin.get( ) function with two argument.
  - c) the cin.get( ) function with three argument.
  - d) the normal cout << combination
5. A static function can be called using
  - a) objects
  - b) Normal function
  - c) class
  - d) Nameless object
6. Object is -----
  - a) Data type
  - b) User defined type
  - c) Instance of a class
  - d) Similar to class
7. Containership is ----- relationship
  - a) Is a
  - b) Has a
  - c) whole
  - d) Kind of



22. a) Define function overloading. Implement the distance class and overload getdistance() function

**(OR)**

b) (i) Using array of objects find the student mark average and subject average of N students. Each student has 3 subjects. Use function overloading concept.

23. a) Explain static data member and static member function. Write a program to count number of objects created using static data member.

**(OR)**

b) With an example program explain the following concepts  
Object as function argument  
Returning object from the function

24. a) Give the detailed discussion of various types of inheritances with appropriate example.

**(OR)**

b) (i) List the rules for overloading the operators. (4)  
(ii) Write a C++ program to overload the binary operators + and - to add and subtract complex number. (10)

25. a) Explain the following concepts with example  
a) Assignment and copy initialization  
b) this pointer  
c)Memory management operator

**(OR)**

b) Explain about virtual function and virtual base class with appropriate example.

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