

B.E., DEGREE EXAMINATIONS: MAY/JUNE 2013

Sixth Semester

ELECTRONICS AND INSTRUMENTATION ENGINEERING

CSE202 : 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. Data members of a class can be initialized
 - a) Inside main function
 - b) By using destructor
 - c) By using constructor
 - d) Automatically
3. Find the equivalent of Macro
 - a) Static function
 - b) Friend function
 - c) Inline function
 - d) Dynamic function
4. Output of the following program

```
#include <iostream.h>
Int m=10;
Void main()
{ int m=20;
  { int m=30;
    Cout<<m<<::m;
  }
  Cout<<m<<::m;
}
```

 - a) 30 20 20 10
 - b) 20 30 20 10
 - c) 30 10 10 20
 - d) 30 10 20 10
5. The return type of the destructor
 - a) Void
 - b) character
 - c) Integer
 - d) No return type
6. What is meant by object
 - a) Data type
 - b) User defined type
 - c) Instance of a class
 - d) Similar to class

(OR)

- b) Define function overloading. Implement the matrix class and overload the get matrix function in four different types.

23. a) Explain the following with appropriate example.

- (i) Array as function argument
- (ii) Array of objects

(OR)

- b) Give the detailed discussion of the following with example

- (i) Discuss in detail about copy constructors with the help of suitable program. (7)
- (ii) Object as function argument and returning object from the function (7)

24. a) Define inheritance. Explain various types of inheritance with appropriate example.

(OR)

- b) Write a C++ program to overload the binary operators + and – to add and subtract time in the format hh:mm:ss. Use Constructors.

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

(OR)

- b) Discuss in detail about various types of Template and exceptions handling techniques with appropriate example.
