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FACULTY OF ENGINEERING AND TECHNOOGY

B.E (CSE/IT) Examination - *DEC – 2014*

Object Oriented Programming Using C++ (Revised)

[Time: THREE *Hours*] **[Max. Marks:80]**

"Please check whether you have got the right question paper."

N.B ***1)*** *Q. 1 &Q.6 are compulsory.*

2) Solve any Two questions from each section from remaining.

SECTION A

Q.1 Solve any five : **10**

a)What is the use of scope resolution operator (::)in C++.

b) What are the operators of C++ that cannot be overloaded?

c) How does constructor differ from normal functions?

d)What is the default access mode for class members?

e) What do you mean by cascading of I/O operators?

f) What is the structure of C++ program?

g) What will be the output of the following code?

```
For (int m=0;m<5;m++)
Cout<<m;
```

h) What does the following poop prints out?

```
 int m=1;
while(m<11)
{
m++;
cout<< m++;
}
```

Q.2 Explain the following concepts of OOP in detail with an example. 15

a) Data abstraction b) Inheritance c) Polymorphism d) Objects

Q.3 a) Write a C++ program to overload + & operator which perform the addition & subtraction of two matrix of 3by3 respectively. 10

b) What do you mean by inline function? Explain with example. 05

Q.4 a) Describe the concept of call by value & call by reference with an programming example. 08

b) What is the significance of static members in C++? Explain with example. 07

Q.5 a) Explain the various types of constructor with an programming example. 10

b) Describe the concept of destructor with an programming example. 05

SECTION -B

Q.6 Solve any five : 10

a)What is an I/O stream ?

b) What is the type of class for which objects cannot be created?

c) How to open and close file?

d)What is generic classes in templates ?

e) What is "this"?

f) What is container?

h) What is the difference between private and protected class members?

g) What do you mean by function? What is prototype of function?

Q.7 a) Define Inheritance .Explain multilevel inheritance with programming example? 10

b) Write short note on new and delete operators. 05

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Q.8	a) Explain the concept of pure virtual function with example.	08
	b) Explain with example how can a class template be created.	07
Q.9	a) Write a C++ program to read a file name and display the content of file on screen.	08
	b) Explain I/O manipulators.	07
Q.10	a) Differentiate between static & dynamic binding with example.	10
	b) Write a program which explains the concept of single level inheritance.	05

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