

AMITY SCHOOL OF ENGINEERING AND TECHNOLOGY
INTERNAL EXAMINATION (Sept, 2015)
B.TECH (MAE/CIVIL/IT/ECE/CSE) IIIrd Semester
Object Oriented Programming Using C++
Course Code: ES203

Time 1 Hr.

Max. Marks: 20

Q1. What is a static data member? How they are used in static function? Explain with example. (5 marks)

Q2. Discuss the memory management operators: NEW, DELETE with suitable examples. (3 marks)

Q3. Write a program to clearly explain the difference between parameterized constructor and constructor with default arguments. (4 marks)

Q4. What will be the output of the following program?

```
#include<iostream.h>
int val = 0;
class IndiaBix
{
public:
    IndiaBix()
    {
        cout<< ++val;
    }
    ~IndiaBix()
    {
        cout<< val--;
    }
};
int main()
{
    IndiaBix objBix1, objBix2, objBix3;
    {
        IndiaBix objBix4;
    }
    return 0;
}
```

(3 marks)

Q5. Write a program to make a function "Account" that can access the private data members of two different classes "Employee" and "Student" using the concept of friend function. (5 marks)