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Name.....

Reg. No.....

**FIRST SEMESTER M.Sc. DEGREE EXAMINATION
JANUARY 2009**

Computer Science (Main)

CS 103—OBJECT ORIENTED CONCEPTS AND C++

(2005 Admissions)

Time : Three Hours

Maximum : 80 Marks

Part A

*Answer any **five** questions.
Each question carries 8 marks.*

1. List down the applications of OOP.
2. Explain Copy Constructor and parameterized Constructor.
3. Write a program to print the following output using for loops.

```
1
22
3 3 3
4 4 4 4
5 5 5 5 5
```

4. What are the differences between friend function and member function ? Explain.
5. What are the different forms of inheritance ? Give an example for each.
6. Explain the characteristics of UML.
7. What is Use-Case Diagram ? Explain in detail.

(5 x 8 = 40 marks)

Part B

*Answer any **four** questions.
Each question carries **10** marks.*

8. Explain the use of enumerated data type.
9. When will you make a function in line ? Why ?
10. What are the situations that can be considered when incompatible types are encountered in the data conversion ? Explain.
11. Discuss exception handling in detail.
12. With example, explain state and activity diagrams.
13. Explain the software testing and maintenance in detail.

(4 x 10 = 40 marks)