

D 28052

Name.....

Reg.No.....

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, JANUARY 2007

Computer Science

CS 103—OBJECT ORIENTED CONCEPTS AND C++

(2005 Admissions)

Maximum : 80 Marks

Time : Three Hours

Part A

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

1. How to pass an array to and from a function ? Write a program to clarify your explanation.
2. What does operator-overloading mean-explain with enough examples ? Explain why the "<<" and ">>" operator overloading functions are always friend functions. ? Discuss with neat examples.
3. What is polymorphism and explain some methods to achieve it ? Explain the advantages and disadvantages of **inline** functions with **example(s)**.
4. What are **inline** functions ? Explain the advantages and disadvantages of **inline** functions with **example(s)**.
5. Explain CRC modeling with an example.
6. Is there any relationship between ER diagram and its class diagram ? Justify your comment with suitable **example(s)**.
7. What is an exception ? Explain various types of exception handling features available in C++. (5 x 8 = 40 marks)

Part B

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

8. Comparing the old programming paradigms, the OOP has a vital role in the history and evolution of programming languages. Explain the reasons for the common acceptance of OOP-give a comparative study with other programming paradigms.
9. What are constructors ? Explain various types of constructors with suitable examples. **argument** and return
10. Write a program that will accept a file name and a word as command line the number of occurrence of that particular word in that file.
11. Explain that concept "templates". Explain the working of templates in inheritance. of a Library Draw the class
12. Identify any five important classes that required for the automation **between** them.
13. Write a short note on the software system design methods and explain the advantages and disadvantages of Object Oriented Design over the **other(s)**. (4 x 10 = 40 marks)