Fundamental of computer programming & information technology (CS-101, Dec-2006)

Note: Section A is compulsory. Attempt any five questions from section B & C taking at least two questions from each part.

Section-A

- 1. a) Explain the difference between hardwired and micro programmed control.
 - b) Differentiate control bus, data bus and address bus.
 - c) What do you mean by classes with in the classes?
 - d) What is extraction operator? Explain.
 - e) How dynamic of runtime array can be created?
 - f) Write the steps to initialize the static data in C++.
 - g) When does an ambiguity in multiple inheritance?
 - h) What the text and binary modes have to do with files?
 - i) What are the various standard file pointers? What do they refer to?
 - j) How can we perform I/O operations using the multiple objects?

Section-B

- 2. Discuss in detail the chief characteristics, capabilities and evolution of computers and what are the motivating forces behind the development of computers?
- 3. Write a C++ program to declare and use both the constructor and destructors.
- 4. Write a C++ program to compute the size of a union.
- 5. Write a C++ program to read a two dimensional square matrix A and display its transpose.

Section-C

- 6. How does inheritance occur and work in different levels? Explain with an appropriate example.
- 7. Write a C++ program to sort the numbers by using pointers.
- 8. (a) How class hierarchy works? Explain it.
 - (b) How inheritance occurs and works in different levels? Explain with example.
- 9. How does application of IT help in industrial management technology?