Fundamental of computer programming & information technology
(CS-101, Dec-2007)

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) Write down the relative merits and demerits of different storage devices.
   b) Can cascading of input & output operators is possible? If yes, explain how?
   c) Differentiate object-based language & object oriented language.
   d) Is reference to a reference allowed? Comment.
   e) Differentiate between late binding & the early binding.
   f) What advantages are there in allowing identifiers with long names?
   g) How array can be passed to the function?
   h) How does pointer work with two dimensional arrays?
   i) Explain the redirection & command line argument.
   j) How does an append mode differ from a write mode?

Section-B
2. (a) How can we merge a file using mail merging?
   (b) What are the minimum hardware requirements to install MS-Office?
3. Write a program that will read a value from the keyboard as temperature in Fahrenheit and display it in Celsius.
4. Write a C++ program to find the sum of n integers starting from m^{th} integer.
5. (a) Differentiate between input screen & output screen.
   (b) Explain the features of the <isostream.h> & <fstream.h> header files used in C++.

Section-C
6. Write a C++ program to reverse a numeric array by using pointers.
7. Write a C++ program to illustrate the concept of abstract class & pure virtual function.
8. (a) What are the methods of detecting end of life?
   (b) Differentiate between get ( ) and put ( ) function.
9. How a prototyping paradigm helps in object oriented analysis & design?