

**Fundamentals of Computer Programming and IT**  
(CS-101, Dec.2005)

Time: 3 Hours

Max. Marks: 60

**Note:** Question No. 1 is compulsory. Attempt five questions from section A and B, taking at least two questions from each section.

**Section-A**

1. (a) What is a text processing package?  
(b) What is the configuration of a PC?  
(c) What is a data structure?  
(d) How elements in an array are stored in memory?  
(e) CD is a random or a sequential storage device.  
(f) What is polymorphism at compile time?  
(g) What are the tools to surf a net?  
(h) What is an algorithm?  
(i) What is the difference between syntax and semantics of a language?  
(j) What is the type conversion? (2 X 10)

**Section-B (8 marks each)**

2. What is the structure of a computer? Explain with the help of a block diagram.
3. (a) What are the various functions of an operating system, explain with the help of a windows O.S.  
(b) What is internet explorer? Explain. (4, 4)
4. (a) How does mail merge works- explain.  
(b) How a table is created in Word? (4, 4)
5. (a) What are the various output devices of a computer.  
(b) How many bites will be there in a 20 GB hard disk. (4, 4)

**Section-C (8 marks each)**

6. Explain the following.  
(a) Variable (b) Identifiers (c) Keyboard (d) Symbolic constant
7. Using operator overloading, write a programme to subtract and multiply two matrices.
8. (a) How an error is handled in file in C++.  
(b) Write a programme to count non-vowels in a file of text. (4, 4)
9. (a) What are the various steps in the dendoprint of a C++ programme.  
(b) What are the various applications of information technology? (4, 4)