Fundamentals of computers and Programming in C
(CSE-101 E, June-05)

Note: Attempt five questions at all, selecting at least one question from each Unit.

UNIT-1

1. a) Draw the block diagram of a computer and explain the role of its important elements.
   b) List the various I/O and memory devices used in computers.
   c) Explain the necessity of connecting variety of memory devices in computers

2. What is an operating system? Explain the functions performed by an operating system. Discuss the various operating systems you are familiar.

UNIT-2

3. a) Discuss the functions of: Assembler, Compiler, Interpreter, Debugger, Linker and Loader.
   b) Explain the difference between
      i) High, low levels and Assembly languages
      ii) Algorithm and flow chart.

4. a) What is an internet? Discuss features of it and the various applications.
   b) Write notes on e-mail and FTP.

UNIT-3

5. Discuss with examples the various control statements available in C.

6. a) What is the difference between iteration and recursion? Explain with example. Write a program to find the fractional of a given number.
   b) Describe the various data types available in C by giving suitable examples.

UNIT-4

7. a) Discuss with examples the various I/O statements in C.
   b) What is the difference between a user function and library function in C? When is the execution of the function terminated? How many arguments can be passed to a function? What are the rules regarding the relationship between formal arguments? Discuss with examples

8. a) What are strings? How are strings handled in C? Explain with examples. Also explain strings functions in C.
   b) How do we declare structure in C? How do we initialize the structures? How do we access the structure elements? Explain with examples.
   c) What is Unions? How do we declare unions in C? How do we access the elements of unions in C?