

Roll No.

24006

B.Tech 2nd Semester "F Scheme"

Examination – May, 2010

Fundamentals of Computer & Prog. In C

Paper : CSE-101-F

Time : Three hours] [Maximum Marks : 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt *five* questions in total. Question No. 1 is compulsory. Attempt *one* question from each Section A, B, C & D. All questions carry equal marks.

1. (i) Which of the following is *not* a memory :
- (a) Flash
 - (b) Bubble
 - (c) Triple

- (ii) In MICR "C" stands for :
- (a) Color
 - (b) Code
 - (c) Character
- (iii) What is the latest version of Windows O.S.
- (iv) LSI technique was used in which generation of Computers.
- (v) Differentiate between system software and application software.
- (vi) What type a memory a Hard disk is ? Primary or Secondary.
- (vii) What is bootstrap loader ?
- (viii) What is full form of TCP/IP ?
- (ix) What is full form of OSI ?
- (x) Low level language programs are faster or slower in execution as compared to HLL programs.
- (xi) What is firewall ?
- (xii) What are basic data types supported by C language ?
- (xiii) What is type casting ?
- (xiv) What is difference between exit and break statement in C.
- (xv) Define a dangling reference ?

- (xvi) How many passes are there in C compiler ?
- (xvii) Write a tertiary operator available in C language ?
- (xviii) Write one homogeneous and one heterogeneous data structure available in C language.
- (xix) What is the significance of EOF ?
- (xx) When you close a file, where is it stored in RAM or Hard Disk.

SECTION - A

2. (a) Briefly discuss the generations of microprocessors ?
What was the technology used in each generation ?
- (b) Explain the working of a LASER Printer.
3. What are the functions of an operating system ?
Compare the characteristics of DOS and UNIX.

SECTION - B

4. (a) Write the advantages, disadvantages of HLL. Low level language & Assembly language.
- (b) What is the function of a Loader and a linker ?
How they are different from each other.

5. (a) What are different issues related with Network Security ? Briefly discuss some.
(b) How internet can be useful for society ? What are the drawbacks of net addiction.

SECTION - C

6. Explain with syntax and proper mechanisms provided for loops in C.
7. WAP in C to accept the following information of 50 students.
Name (First, Middle, Last)
Age
Roll No.
Date of Birth (DD-MM-YY) and display this information on screen under proper headings.

SECTION - D

8. (a) Using pointer WAP in C to find the desired element in an array of N elements.
(b) What are the disadvantages of pointer variables.
9. (a) What are the typical error situation which can occur while dealing with files in C.
(b) Write a code to open a file in binary write and read mode.

