Roll No. ....

24006

B. Tech. Ist Semester "F Scheme"
Examination – December, 2009

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.* All questions carry equal marks. Attempt at least *one* question from Sections A, B, C, D. .

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 of memory is a Hard Disk, 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 ? **10**

   (b) Explain the working of a LASER Printer. **10**

3. What are the functions of an Operating System ? Compare the characteristics of DOS and UNIX. **20**

SECTION – B

4. (a) Write the advantages, disadvantages of HLL, Low Level Language & Assembly Language. **10**

   (b) What is the function of a Loader and a Linker ? How they are different from each other ? **10**

5. (a) What are different issues related with Network Security ? Briefly discuss some. **10**

   (b) How internet can be useful for society ? What are the drawbacks of net addiction ? **10**

SECTION – C

6. Explain with syntax and proper mechanisms provided for loops in C. **20**

7. WAP in C to accept the following information of 50 students : **20**

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 pointers WAP in C to find the desired element in an array of N elements. 15

   (b) What are the disadvantages of pointer variables ? 5

9. (a) What are the typical error situations, which can occur while dealing with Files in C ? 10

   (b) Write a code to open a file in binary write and read mode. 10

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