

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

24006-9,600-(P-4)(Q-9)(09) (3)

P. T. O.

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

