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B. Tech. 1st Semester Examination, December–2012

FUNDAMENTALS OF COMP. AND PROG. IN 'C'

Paper–CSE-101-F

Time allowed : 3 hours]   *[Maximum marks : 100*

Note : Attempt five questions in all. Question No. 1 is compulsory and attempt at least one question from each Section.

1.   (a)   Differentiate between RAM and ROM.

      (b)   Differentiate between Real Time Operating System and Distributed Operating System.

      (c)   Explain packet switching communication technique of Wide Area Network.

      (d)   What is the difference between compiler and interpreter ?

      (e)   Explain conditional operator with the help of example.

      (f)   What are actual parameters and formal parameters ? Explain with help of an example.

      (g)   What is the meaning of LVALUE and RVALUE of variable ? $8 \times 2.5 = 20$

Section–A

2. (a) Differentiate between Warm Booting and Cold Booting.   10

   (b) Explain the concept of multiprocessing operating system.   10

3. (a) What are the various components of Central Processing Unit ?   8

   (b) Explain digitizers.   6

   (c) Explain the structure of MS-DOS.   6

Section–B

4. (a) How Machine Language is different from the Assembly Language ?   10

   (b) What is HTTP ? Why it is used ?   10

5. Explain the OSI reference model in detail.   20

Section–C

6. (a) Write the program in 'C' to find the square root of a program without using function.   10

   (b) Write a program in 'C' to find out the second smallest and second largest number in the list.   10

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7. (a) Write a program in 'C' to print the first 10 multiples of a given number using the 'Do' loop.

10

   (b) Explain the Call by value and Call by reference method in detail.   10

Section–D

8. (a) What are the various File operations ? Explain them.   10

   (b) Write a program to read the data from the keyboard.   10

9. Write short notes on the following :

   (a) Calloc and Malloc Functions   5

   (b) Declaring Pointer Variables   5

   (c) Arrays of Pointer.   5

   (d) Command line arguments.   5