

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 1001

Roll No.

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B.Tech.

FIRST SEMESTER EXAMINATION, 2004-2005

COMPUTER AND LANGUAGESTime : 2 Hours **UPTUonline.com** Total Marks : 50

Note : Attempt ALL questions.

1. Answer *any four* of the following : (4x3=12)

- Draw the block diagram of the various hardware components of a computer. Explain the functions of each component.
- Write down the DOS commands for creating a file, transfer of contents of one disk to another, reading a file, change from window to DOS and making a directory.
- How is a file or folder created in a Window ? Write the steps. Is window an OS ? Write the different versions of Window '95 onwards upto date with some of their salient features.
- What is the function of an OS ? Name five OSs in use.
- What is the purpose of toolbar and Recycle bin ? Write the steps to change the colour of the screen.

- Discuss the use of files and directories in DOS environment.

2. Answer *any four* of the following : (4x3=12)

- Describe the salient features of UNIX. Mention its advantage over DOS.
- Write the commands in UNIX :
 - to see the contents of a file
 - to create a file and to output a file using Editor VI
- What is an internet ? Explain the terms TELNET and FTP.
- Write the purpose of the following terms Login, Password, \$, Elm and @.
- What is Browsing ? What is search engine ? How are these two correlated ?
- Explain the functions of NETSCAPE. What is HTML ?

3. Answer *any four* of the following : (4x3=12)

- Describe the features of a programming language. Name five programming languages in practice.
- Explain the various steps in the development of a program from the problem description. What are procedural and declarative programming languages.

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- (c) (i) Explain the terms variables, constants, assignment in context with C.
- (ii) What are the different commands to enter (INPUT) data in C ?
- (d) What is the purpose of header ? Explain the following headers `stdio.h` and `math.h`.
- (e) For the following logical functions. Write the corresponding statements in C AND, OR and NOT, show with examples.
- (f) Write a program in C to find the average of 'n' numbers.

4. Answer *any two* of the following : (7x2=14)

- (a) (i) Write the different statements and constructs for looping in C.
- (ii) What are the unconditional statements in C ?
- (b) (i) Write a program in C to find the maximum number in the given set of numbers.
- (ii) Write a program in C to transpose a matrix.
- (c) (i) How are the address and contents of the address located in C ?
- (ii) What are the advantages of a structure ? Write the construct of a structure.