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Second Semester MCA Degree Examination, December 2011
Introduction to Unix

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

1.
 - a. Explain how UNIX is developed. (05 Marks)
 - b. Mention the different category of files that exist in UNIX. Discuss each one of them briefly. (09 Marks)
 - c. Explain the following commands with syntax : i) printf ; ii) date ; iii) script. (06 Marks)
2.
 - a. In how many modes one can work with a Vi – editor? Mention and discuss each one of them briefly. (08 Marks)
 - b. Explain the following file handling commands with example :
i) cmp ; ii) lp ; iii) file ; iv) comm. (08 Marks)
 - c. Write a program to accept base and height of a triangle, compute area and output the same. Set the scale factor to two decimals. (04 Marks)
3.
 - a. Explain all positional parameters and special parameters used by shell, with examples. (08 Marks)
 - b. Write a program to compare two strings and find out whether they are equal or not. (05 Marks)
 - c. What is a process? Explain the mechanism of process creation in UNIX. (07 Marks)
4.
 - a. Explain the following commands with example :
i) tr ; ii) uniq ; iii) head ; iv) tail. (08 Marks)
 - b. What are symbolic link? List out the advantages of symbolic link over hard link. (04 Marks)
 - c. Write a shell script that accept the file name, starting and ending line number as an argument and displays all the lines between the given number. (08 Marks)
5.
 - a. Mention the different members of the grep family of commands and explain each one of them briefly. (09 Marks)
 - b. What is sed instruction? Explain the following with respect to sed with example.
i) Line addressing ; ii) Context addressing. (11 Marks)
6.
 - a. Who is system administrator? Outline his jobs and write the privileges of a system administrator. (10 Marks)
 - b. Explain the following commands : i) su ; ii) passwd ; iii) du ; iv) cpio ; v) tar. (10 Marks)
7.
 - a. Explain the following commands with syntax :
i) pr ; ii) cut ; iii) paste ; iv) sort ; v) cat. (10 Marks)
 - b. Explain built in variables of awk, with examples. (10 Marks)
8.
 - a. What is the need of customizing vi in advanced vi? Write and explain exMode commands which help to customize. (10 Marks)
 - b. Write an awk script to delete duplicated line from a text file. The order of the original lines must remain unchanged. (10 Marks)

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