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07MCA22

Second Semester MCA Degree Examination, December, 2010
Introduction to UNIX

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

1. a. Explain the following commands with examples : i) cal ii) date iii) bc iv) echo v) who. (10 Marks)
b. Explain Unix file system, with an example. (05 Marks)
c. In case of Unix, how will you display only lines that are common to two files? (05 Marks)
2. a. Name the 3 modes of vi editor and explain, how you can switch from one mode to another. (10 Marks)
b. Show the octal representation of these permissions :
i) rw x r - x rw - ii) rw - r ----- iii) --- x - w - r -- (05 Marks)
c. How is chown different from chgrp on a BSD based system? (05 Marks)
3. a. Explain the steps involved in shells interceptive cycle. (05 Marks)
b. Explain the PS command and its options along with an example. (05 Marks)
c. What is the exit status of command, where it is stored? How will you add the parent directory to your existing path? (10 Marks)
4. a. Write a shell script that accepts any number of arguments and print them in reverse order. (05 Marks)
b. Differentiate between hard link and symbolic link files. (05 Marks)
c. Explain the following commands with examples : i) head ii) tail iii) cat iv) paste v) uniq. (10 Marks)
5. a. What do you mean by regular expression? Explain the grep command with options and show the output of following command : \$ ls - l | grep '^d'. (10 Marks)
b. Explain the line addressing using sed command. (05 Marks)
c. Differentiate between egrep and fgrep commands. (05 Marks)
6. a. Explain with an example how string handling will be done by using expr command. Write a shell script that displays the message either "Good morning" or "Good afternoon" or "Good evening", depending on the time at which the user logs into the system. (10 Marks)
b. Briefly discuss the privileges of the system administrator. (05 Marks)
c. Explain while and for looping with examples. (05 Marks)
7. a. Briefly discuss the structure of awk script. (05 Marks)
b. Write an awk script to display records from a file that have value greater than or equal to 60 and less than or equal to 80 in the second field of the file. (05 Marks)
c. Explain the built in variables and built in functions of an awk script. (10 Marks)
8. a. What is an exec function? Explain with an example and also write awk script which handles multiple files by using exec. (10 Marks)
b. With respect to vi editor, explain the use of operations d, c, y, i with an example. (05 Marks)
c. Write an awk script to delete the duplicated line from a text file. The order of an original line must remain unchanged. (05 Marks)
