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First Semester MCA Degree Examination, December 2011
Introduction to UNIX

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1 a. Explain the following commands in UNIX:
 i) calendar ii) lock iii) script. (06 Marks)
 b. Mention the different categories of files that exist in UNIX. Discuss each of them. (08 Marks)
 c. Explain the following commands, with options:
 i) lp ii) rm iii) split (06 Marks)

- 2 a. What is the command used for listing the file attributes? Explain the file attributes. (10 Marks)
 b. What are the permissions that are associated with UNIX files on their creation? Explain how these permissions can be changed to required values. (10 Marks)

- 3 a. Explain the here document, with an example. (04 Marks)
 b. Write a shell script that accept one or more filenames as argument and convert all of them to uppercase, provided they exist in current directory. (08 Marks)
 c. Explain the following commands:
 i) at ii) batch iii) nice iv) kill. (08 Marks)

- 4 a. Explain the following environment variables:
 i) PATH ii) IFS iii) SHELL (06 Marks)
 b. Explain the following filters, with options:
 i) head ii) tail iii) cut iv) paste. (10 Marks)
 c. Differentiate between hard links and soft links. (04 Marks)

- 5 a. Explain the grep command, with its options. (10 Marks)
 b. Explain the following regular expression with example:
 i) ch? ii) ch+ (04 Marks)
 c. Explain how redirection is accomplished, in UNIX. (06 Marks)

- 6 a. Explain the following with respect to SED command with example:
 i) Remembered pattern ii) Repeated pattern iii) TRE. (06 Marks)
 b. Explain how expr command can be used for string handling. (10 Marks)
 c. Explain the exec statement. (04 Marks)

- 7 a. How can any user acquire super user status? What are the various administrator's privileges? (06 Marks)
 b. Explain the following commands with an example each:
 i) du ii) df iii) find. (06 Marks)
 c. Explain any four built in functions used in awk, with examples. (08 Marks)

- 8 a. Explain with respect to vi editor:
 i) Named buffers ii) Numbered buffers iii) Splitting the window. (06 Marks)
 b. Explain how vi editor can be customized. (10 Marks)
 c. Explain the following commands, with example:
 i) cpio ii) tar (04 Marks)

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