USN ☐☐☐☐☐☐☐☐☐☐

First Semester MCA Degree Examination, June 2012
Introduction to UNIX

Time: 3 hrs.   Max. Marks:100

Note: *Answer any FIVE full questions.*

1   a.   Explain the following commands, with syntax
         i) who   ii) passwd   iii) script   iv) cmp   v) type.   **(10 Marks)**
    b.   What are the absolute and relative path names? Give examples.   **(04 Marks)**
    c.   Give the UNIX file system tree and explain the parent-child relationship.   **(06 Marks)**

2   a.   Explain any four options of ls command, with examples.   **(04 Marks)**
    b.   Explain relative and absolute file permissions, using chmod, with suitable examples.
                                                                             (08 Marks)
    c.   With a diagram, explain the various modes of V$_i$ editor.   **(08 Marks)**

3   a.   Write a note on UNIX wild card characters. Explain any four, with examples.   **(08 Marks)**
    b.   What do you mean by redirection? Explain three standard files.   **(08 Marks)**
    c.   Explain PS and nice commands, with examples.   **(04 Marks)**

4   a.   How do you create hard and soft links in UNIX? Explain using examples. What are the uses
         of links?   **(10 Marks)**
    b.   Explain the following commands, with syntax and examples :
         i) find   ii) tr   iii) touch.   **(06 Marks)**
    c.   List and explain the various options of pr command.   **(04 Marks)**

5   a.   What is a regular expression? Give various options of the grep command.   **(08 Marks)**
    b.   Explain the line addressing in sed, with examples.   **(06 Marks)**
    c.   How do you achieve substitution, using sed command? Give examples. **(06 Marks)**

6   a.   What are the positional parameters? Explain set and shift commands. **(06 Marks)**
    b.   What is a shell script? Write a shell script to display a range of lines between two given line
         numbers from a file, using command line arguments.   **(08 Marks)**
    c.   Explain the following :
         i) Sources of list in a for loop
         ii) Tar command.   **(06 Marks)**

7   a.   Give the syntax of awkfilter. Explain the various built-in functions of awk.   **(06 Marks)**
    b.   Explain the if and while statements in awk, using examples.   **(08 Marks)**
    c.   Explain exec, eval and export statements in UNIX.   **(06 Marks)**

8   a.   What are operators in Vi? Explain any two with examples.   **(06 Marks)**
    b.   Explain the usage of named and numbered buffers in UNIX.   **(10 Marks)**
    c.   Explain the commands :
         i) map
         ii) abbr.   **(04 Marks)**

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