Code No: **R42029**

R10

Set No. 1

IV B.Tech II Semester Supplementary Examinations, July/Aug - 2015
UNIX AND SHELL PROGRAMMING
(Electrical and Electronics Engineering)

Time: 3 hours   Max. Marks: 75
Answer any FIVE Questions
All Questions carry equal marks
*****

1   What would be the effect of the following commands:
   a) mkdir /usr/local/src/bash/{old, new, dist, bugs}   b) type printf
   c) echo -e "\t\tHellothere\c"   d) echo -n "Hello there"
   e) printf "The number is %.2f\n" 100   [15]

2   a)   How grep works? Explain with examples.   [8]

   b)   Why should we use multiple expressions in chmod? Explain with an example.   [7]

3   a)   Explain the command that eliminates duplicate entries in a file along with
        options.   [8]
   b)   How do you delete all leading and trailing spaces in all lines of a file?   [7]

4   a)   Write a program which use grep to search a file for a pattern and display the
        search patterns on the standard output.   [8]
   b)   How do locate lines beginning and ending with a dot using sed? Explain.   [7]

5   a)   Explain in detail about any four string functions.   [8]

   b)   Write an awk program to print only the odd numbered lines of a file.   [7]

6   a)   What is the format for an instruction in korn shell?   [8]

   b)   Find the line that does not match a regular expression in korn using grep.   [7]

7   a)   Describe about "eval" command in C Shell with an example.   [7]

   b)   Differentiate between the special files of C shell and korn shell.   [8]

8   a)   What is the difference between symlink and ulink?   [7]

   b)   Explain any two API Directories.   [8]

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Time: 3 hours   **Max. Marks: 75**
Answer any FIVE Questions
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*****

1   What would be the effect of the following commands:
    a) mkdir -p works/xyz/unix/book   b) rm -f -letter
    c) ls -l /usr/bin/vi   d) uname   [15]
    e) echo $PATH

2 a) How do you locate lines beginning and ending with a dot using grep?   [7]

   b) Explain networking commands with an example.   [8]

3 a)   How do you delete all blanks lines from a file?   [7]

   b) Explain listing & removing aliases.   [8]

4 a) Explain grep command with any four examples.   [8]

   b) What are the different options available in sed?   [7]

5 a) What are the different types of operators used in awk shell script? Explain.   [8]

   b) Write awk program to check whether a given number is a Armstrong number
       or not.   [7]

6 a) Write short notes on basic korn shell statements.   [8]

   b) Find the line that does not match a regular expression in korn & grep.   [7]

7 a) Explain piping in C shell with example.   [7]

   b) Explain the special parameters and variable in c shell.   [8]

8 a) What are the differences between fstat and lstat? Explain with an example.   [8]

   b) What is the purpose of using the system call lseek? Explain with an example. [7]

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Set No. 3

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Time: 3 hours   **Max. Marks: 75**
Answer any FIVE Questions
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*****

1   What would be the effect of the following commands:
    a) cat users   b) echo $PS1
    c) mv x.c y   d) ls   e) pwd   [15]

2 a) How is tar command a little different than other UNIX commands? Explain
    with suitable examples.   [8]
   b) Explain the absolute assignment of chmod.   [7]

3 a) Display the list of last 30 files present in the current directory. Also store this
    list in a file myfile (by using pipelines)?   [7]
   b) Explain listing & removing aliases.   [8]

4 a) Explain in detail about grep operation.   [7]
   b) List and Explain all regular expressions of sed.   [8]

5   Explain awk record and write a program to display student records.   [15]

6 a) Write short notes on relation expression patterns of korn shell.   [7]
   b) Find the line that matches a regular expression in korn & grep.   [8]

7 a) What is the exit status of a command in C Shell? Explain with example.   [8]
   b) Write a C shell program to copy the content of one file to another.   [7]

8 a) Discuss file structures in detail.   [8]
   b) Explain about system call umask with an example.   [7]

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Answer any FIVE Questions
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1   Explain the following commands with their syntax and examples.
        a) man   b) echo
        c) passwd   d) date   e) ls   [15]

2 a) Explain about file security in unix.   [7]

   b) Write a short note on telnet and rlogin.   [8]

3 a) Write a short note on piping.   [8]

   b) How do you delete all leading and trailing spaces in all lines of a file?   [7]

4 a) How do locate lines beginning and ending with a dot using grep? Explain.   [7]

   b) List and explain any four of sed modified commands with an example.   [8]

5 a) Explain about expressions in awk shell script in detail.   [7]

   b) Mention different types of loop statements in awk shell script.   [8]

6 a) Explain the output statement in korn shell.   [8]

   b) What is the exit status of a command in Korn Shell?   [7]

7 a) Describe the relation expressions of C shell program.   [8]

   b) Explain the basic decision statement if-else with suitable example. [7]

8   Explain the following system calls with an example.
     a) File handling system calls
     b) Error handling system calls
     c) Process control system calls   [15]

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