

Code No: **R42029**

R10

Set No. 1

IV B.Tech II Semester Regular Examinations, April/May - 2014

UNIX AND SHELL PROGRAMMING

(Electrical and Electronics Engineering)

Time : 3 hours

Max. Marks: 75

Answer any Five Questions

All Questions carry equal marks

- 1 a) Explain the unix kernel architecture [7]
b) Explain the following unix commands [8]
 i) ssty ii) cp iii) tar iv) printf
- 2 a) Explain vi editor [8]
b) Explain the following commands [7]
 i) unlink ii) umount iii) tee
- 3 a) What is a shell? Explain standard streams in unix [8]
b) Explain tee command [7]
- 4 a) What is a regular expression? Explain various types of grep [8]
b) Write a grep(egrep) command that selects the lines from file1 that start with the string "UNIX" and end with the string "UNIX" [7]
- 5 a) Explain awk scripts in detail [8]
b) Explain the system commands in awk with example [7]
- 6 a) Explain the following [8]
 i) Trash File ii) Terminal File
b) Write each of the following file expressions in Korn shell [7]
 i) file1 is empty ii) file2 is not readable
- 7 a) Explain the following [8]
 i) Shell variables ii) Environmental variables
b) Write a shell program which takes a source file name and directory names as command line arguments and prints messages yes if the file is found in any of the given directories else prints no [7]
- 8 a) Explain the following System Call with syntax [8]
 i) lseek ii) chown
b) Explain the following Directory API with example [7]
 i) umask ii) mkdir

Code No: R42029

R10

Set No. 2

IV B.Tech II Semester Regular Examinations, April/May - 2014

UNIX AND SHELL PROGRAMMING

(Electrical and Electronics Engineering)

Time : 3 hours

Max. Marks: 75

Answer any Five Questions

All Questions carry equal marks

- 1 a) Explain different unix versions [7]
b) Explain the following unix commands
i) path ii) script iii) who iv) lp [8]
- 2 a) Explain file handling utilities [8]
b) Explain the following commands
i) ftp ii) uniq iii) tar [7]
- 3 a) Explain pre defined variables [8]
b) Define an alias. Which shell(s) support aliases? Can an alias be used to rename a file? If it can, how [7]
- 4 a) Briefly explain sed commands [8]
b) Write a sed command that swaps the first and second character in each line in a file [7]
- 5 a) How the awk utility views a file? Explain the field buffers and Record buffers of awk [8]
b) Explain the following String functions with example
i) length ii) index iii) split [7]
- 6 a) Explain the Korn shell features [8]
b) Write the following relational expressions in the Korn shell
i) $x < 9$ ii) $x \leq y$ iii) $x \neq y$ iv) $x = y$ [7]
- 7 a) Describe C shell features [6]
b) Explain while , foreach and repeat loop in C shell [9]
- 8 a) Explain the following System Call with syntax
i) close ii) lstat [8]
b) Explain the following Directory API with example
i) closedir ii) umask [7]

Code No: R42029

R10

Set No. 3

IV B.Tech II Semester Regular Examinations, April/May - 2014

UNIX AND SHELL PROGRAMMING

(Electrical and Electronics Engineering)

Time : 3 hours

Max. Marks: 75

Answer any Five Questions

All Questions carry equal marks

- 1 a) Describe the unix features [7]
b) Explain the following unix commands [8]
 i) printf ii) date iii) od iv) gzip
- 2 a) Explain unix file permissions for security [7]
b) Explain the following commands [8]
 i) finger ii)tail iii) comm.
- 3 a) What is redirection? Explain standard redirections [7]
b) Explain head and tail commands. Using head and tail command , write a single command to copy lines 20 to 60of file 1 to file2 [8]
- 4 a) Mention the primary difference between fgrep and other two members of the family [8]
b) Explain sed script format and instruction format [7]
- 5 a) Explain the categories of patterns in awk utility in detail [7]
b) Explain the following awk applications with example [8]
 i) phone List ii) count Line and words
- 6 a) Explain the following Environmental variable of korn shell with example [8]
 i) CDPATH ii) ENV iii) PWD iv) MAIL
b) Write each of the following expressions in korn shell [7]
 i) $z = t*(4/x)+6$ ii) $x = x+y+z$
- 7 a) Explain the startup script and shutdown script in C shell [8]
b) Explain the environment variables of C-shell [7]
- 8 a) Explain the following System Call with syntax [8]
 i) create ii) write
b) Explain the following commands with example [7]
 i)closedir ii) opendir

Code No: R42029

R10

Set No. 4

IV B.Tech II Semester Regular Examinations, April/May - 2014

UNIX AND SHELL PROGRAMMING

(Electrical and Electronics Engineering)

Time : 3 hours

Max. Marks: 75

Answer any Five Questions

All Questions carry equal marks

- 1 a) Briefly explain different unix shell features. [7]
b) Explain the following unix commands
i) echo ii) more iii) passwd iv) cat [8]
- 2 a) Explain unix file system [7]
b) Explain the following commands
i) ps ii) rlogin iii) awk [8]
- 3 a) What is quoting? What are the three quote tokens? Explain [6]
b) Define the uniq command. What is its general application? Can the input from the keyboard? From the file? From the several files? Can the output of the uniq command go to the monitor? To a file? To more than one file [9]
- 4 a) Explain grep family in detail [7]
b) Write a sed command that replaces all single spaces(only single spaces) at the beginning of each line with a tab [8]
- 5 a) What is awk utility? Explain the options of awk utility [9]
b) Compare sed and awk [6]
- 6 a) Explain Korn shell input and output commands with example [7]
b) Write each of the expressions in Korn shell
i) 3+4 ii) 4/x iii) x*14 iv) x%5 [8]
- 7 a) Explain eval command in C shell with example [6]
b) Write a script to backup a list of files [9]
- 8 a) Explain the following System Call with syntax
i) close ii)read [7]
b) Explain the following Directory API with example
i) readdir ii) mkdir [8]