

Code No: RT42024B

R13

Set No. 1

IV B.Tech II Semester Supplementary Examinations, July/August- 2017

UNIX AND SHELL PROGRAMMING

(Electrical and Electronics Engineering)

Time: 3 hours

Max. Marks: 70

Question paper consists of Part-A and Part-B

Answer ALL sub questions from Part-A

Answer any THREE questions from Part-B

PART-A (22 Marks)

1. a) What is the output of the following command '\$who | sort -logfile > newfile'? Explain. [3]
- b) Enumerate some of the commonly used network commands in Unix [3]
- c) Write a shell script to get current date, time, user name and current working directory. [4]
- d) Write the 'sed' command to replace the pattern "UNIX" from the 5th occurrence to the end of file. [4]
- e) List and explain about various environment variables in Korn shell [4]
- f) What are positional parameters in C shell scripting? Explain the meaning of the \$0, \$2, \${9}, \$* [4]

PART-B (3x16 = 48 Marks)

2. a) With a neat sketch, explain the architecture of UNIX operating system. [8]
- b) Explain the following UNIX commands [8]
 - i) cp
 - ii) tar
 - iii) more
 - iv) mkdir
3. a) Explain the two basic modes of the vi editor. Also explain various commands of the vi editor. [8]
- b) What are the three levels of security in UNIX? Explain each in detail. [8]
4. a) What is Redirection? Explain the various commands used for redirection [8]
- b) Explain the following system calls [8]
 - i)open
 - ii)lseek
 - iii)write
 - iv)symlink
5. a) What is an awk utility? Explain the two formats of the awk command. Can the awk command accept a regular expression? [8]
- b) Explain the differences between grep and sed with a suitable example. [8]
6. a) Explain the two special files in UNIX used by any Korn shell. [8]
- b) What are positional parameters? How to validate input parameters? Explain with an example. [8]
7. a) How we know the exit status of a command in C shell? Explain. [8]
- b) What is an On-Off variable in C Shell? List some of these variables and their use. [8]