

Code No: **R42029****R10****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: 75****Answer any FIVE Questions**
All Questions carry equal marks

- 1 a) With a neat sketch, explain the architecture of UNIX operating system. [7]
b) Explain the following UNIX commands [8]
(i) uname (ii) ls (iii) more (iv) cat
- 2 a) Explain the implementation details of UNIX file system. [6]
b) Explain the following UNIX commands [9]
(i) grep (ii) sort (iii) diff
- 3 a) What is Redirection? Explain various commands used for redirection. [7]
b) What is a filter in UNIX? List out various filters in UNIX. Explain any two of them. [8]
- 4 a) Define the 'grep' family. Mention the primary difference between fgrep and the other two members of the grep family. [7]
b) Write a 'sed' command to [8]
i) display the lines through 10 to 15 in a given text file
ii) replace the word 'UNIX' with 'LINUX' in a given text file
- 5 a) Define an associative array and explain the steps in processing an associative array. [8]
b) With a neat diagram, describe an awk utility's view of a file and also explain the file buffers and record buffers of awk. [7]
- 6 a) What is an Environment variable? List out the environment variables that control the user environment in Korn Shell. [8]
b) Demonstrate the execution of Loop redirection with a suitable example. [7]
- 7 a) Explain the echo command in C shell. Demonstrate the use of C shell character codes for each command. [8]
b) What is the application of 'eval' command in C shell and also explain the execution of 'eval' command with suitable example. [7]
- 8 a) Explain the commands that are available in UNIX file system to change the permissions of a file. [7]
b) Explain the following directory API with example [8]
(i) opendir (ii) readdir (iii) closedir