

Code No: **R41193****R10****Set No. 1****IV B.Tech I Semester Supplementary Examinations, February/March - 2018****UNIX PROGRAMMING****(Electronics and Computer Engineering)****Time: 3 hours****Max. Marks: 75****Answer any FIVE Questions****All Questions carry equal marks****\*\*\*\*\***

- 1 a) Give the block diagram of Unix system kernel showing the various modules and explain their relationship with each. [8]  
b) Write commands to create directories and parent directories, removing and changing directories. [7]
- 2 a) How is the file ownership found in Unix? What command is used to change the file ownership? What are the different file access modes? [9]  
b) How is chmod command used to modify the permissions? [6]
- 3 a) Devise a pipeline which lists five largest files in the current directory. [8]  
b) How is the file beginning and ending displayed? Explain. [7]
- 4 a) Mention some of the sed commands that are used to take actions on selected lines and explain each one of them very briefly. [8]  
b) What are the different meta characters used by grep family of commands? [7]
- 5 a) How is numeric computation done with awk? Explain with examples. [8]  
b) Use awk to locate lines larger than 100 and smaller than 150 characters. [7]
- 6 a) How are functions defined in a korn shell? What are the positional parameters used in functions? [8]  
b) Illustrate string handling operators in Korn shell. [7]
- 7 a) With the aid of a simple example explain how one can debug a shell script. [8]  
b) Describe some of the string manipulating abilities of the expr command. [7]
- 8 a) Discuss the significance of link and symlink commands. [8]  
b) What is a file descriptor and what is it used for? Name the system calls that use a file descriptor as argument. [7]