

Code No: **R42029 R10** 

Set No. 1

#### IV B.Tech II Semester Regular/Supplementary Examinations, April- 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 a) Explain about UNIX features? [8] b) Explain the following commands with suitable examples: i) who ii) date iii) mkdir iv) stty [7] Discuss about different modes of operation in vi editor. [8] b) Explain cut and paste commands with suitable examples. [7] Discuss how jobs are controlled in UNIX with suitable examples. [8] b) Define the terms filters and pipes. Give a short note on them. [7] Discuss in detail about grep family of commands. 4 [15] Explain how associative arrays are used in awk scripts. 5 a) [8] Explain in detail about the mathematical functions of AWK. [7] List korn shell features and explain the command history of korn shell. [8] Explain about command execution process of korn shell. [7] 7 a) Explain various Special Parameters and Variables in C shell programming. [8] b) Explain about Argument Validation in C shell. [7] 8 Explain the syntax and each argument of the following functions: c) lstat d) chmod a) stat b) fstat e) chown [15]

1 of 1



Code No: **R42029 R10** 

Set No. 2

# IV B.Tech II Semester Regular/Supplementary Examinations, April- 2015 UNIX AND SHELL PROGRAMMING

(Electrical and Electronics Engineering)

Time: 3 hours Max. Marks: 7					
Answer any FIVE Questions All Questions carry equal marks					
****					
1	a)	Explain about UNIX architecture.	[8]		
	b)	Explain the following commands with suitable examples:			
		i) cat ii) cp			
		iii) mv iv) rm	[7]		
2	a)	Explain in detail the following networking commands.	[9]		
		i) unlink ii) mount iii) telnet			
	b)	Explain the following unix utility commands.	[6]		
		i) head ii) sort iii) paste			
3	a)	Define redirection. Explain how input, output and error redirection is done?	[8]		
	b)	Define filter and discuss any four types of filters in UNIX?	[7]		
4		Discuss in detailed about sed? Compare sed with grep.	[15]		
5	a)	Explain about user defined functions used in awk scripts with examples.	[8]		
	b)	Explain about string functions used in awk scripts with examples.	[7]		
6	a)	Explain about the variables of korn shell.	[8]		
	b)	Write a korn shell script that accept two file names as arguments and copies			
		the contents of first file in to the second file.	[7]		
7	a)	Explain about Environmental Variables and On-Off Variables.	[8]		
	b)	Write a C shell script that accepts a file name as argument and tells whether			
		the user is having read, write and execution permissions to that the file or not?	[7]		
8		Explain the syntax and each argument of the following functions:  a) open b) write			
		c) Chmod d) fstat e) umask	[15]		

1 of 1



Code No: **R42029 R10** 

Set No. 3

### IV B.Tech II Semester Regular/Supplementary Examinations, April- 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 a) Explain about UNIX architecture. [8] b) Explain the following commands with suitable examples: i) mkdir ii) more iii) wc iv) gzip [7] 2 a) Discuss various process utility commands with suitable examples. [8] Explain about different disk utility commands with suitable examples. [7] 3 a) What is pipe? Explain how tee command is used in pipes. [8] b) Explain cut and paste commands with suitable examples. [7] Explain the commands grep, egrep and fgrep with neat examples. 4 [15] Compare and Contrast awk and grep [8] 5 Compare and Contrast awk and sed. [7] Explain in detail about the environment variables of korn shell? [8] 6 a) b) Explain about debugging process in korn shell with various debugging scripts. [7] Explain about eval command of C shell. 7 a) [8] b) Write a C shell script that accepts any number of file names as arguments and tells the type of each file. [7] 8 a) Define system call. Differentiate between system call and library functions. [8] Explain about stat system call with suitable program. [7]



Code No: **R42029** 

#### **R10**

Set No. 4

## IV B.Tech II Semester Regular/Supplementary Examinations, April- 2015 UNIX AND SHELL PROGRAMMING

(Electrical and Electronics Engineering)

Ti	Time: 3 hours  Answer any FIVE Questions  Max. Marks:				
All Questions carry equal marks					
****					
1	a)	Explain about UNIX features.	[8]		
	b)	Explain the following commands with suitable examples:  i) man  ii) echo	[7]		
		iii) lp iv) tar	[7]		
2	a)	Explain how security is provided in UNIX through file permissions.	[8]		
	b)	Explain about different backup utility commands with suitable examples.	[7]		
3	a)	Discuss command execution in shell.	[8]		
	b)	Discus the sort command with suitable examples.	[7]		
4	a)	Explain in detail about sed operations and commands.	[8]		
	b)	List applications of sed.	[7]		
5	a)	Explain about looping statements used in awk scripts.	[8]		
	b)	Explain about the mathematical functions of AWK with an example.	[7]		
6	a)	Explain about eval command of korn shell.	[8]		
	b)	Write a korn shell script that accept file names as arguments and print the number of lines, words and characters of each file.	[7]		
7	a)	Explain about the two special files of C shell.	[8]		
	b)	Write a C shell script that accepts even number of file names as arguments and copies the contents of 1 <sup>st</sup> file in to the 2 <sup>nd</sup> file, 3 <sup>rd</sup> file in to the 4 <sup>th</sup> file and so on?	[7]		
8	a)	Briefly explain about the following system calls: open, create, close, read and write.	[8]		
	b)	Briefly explain about the following system calls: lseek, syslink, stat, lstat, chmod, chown.	[7]		
		9 =9=============================	r. 1		