Code No: **R42029**   # R10   **Set No. 1**

IV B.Tech II Semester Regular/Supplementary Examinations, April/May - 2016
UNIX AND SHELL PROGRAMMING
(Electrical and Electronics Engineering)

Time: 3 hours   **Max. Marks: 75**

Answer any FIVE Questions
All Questions carry equal marks
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1	a)	What is kernel? Is it similar to the operating system? Explain.	[4]
	b)	Explain the features of Unix.	[4]
	c)	Explain the commands *cp*, *rm* and *cat* with examples.	[7]
2	a)	Differentiate between head and tail.	[3]
	b)	Explain about process utilities.	[4]
	c)	Write a shell script for the following	
		i) for display only the lines which are containing the word "unix".	
		ii) For display only duplicate lines in a file.	
		iii) For display only 3 and 6 fields in a file.	
		iv) For display particular user files only.	[8]
3	a)	What is filter and pipes? Explain with example.	[4]
	b)	Write a shell script to count no of lines for a given file without using wc commands.	[7]
	c)	Discuss about the sort command with examples.	[4]
4	a)	Explain about the various operations of *sed* commands.	[8]
	b)	Write a shell script checking whether "rama" was logged in or not.	[7]
5	a)	Differentiate between *sed* and *awk*.	[8]
	b)	What is meant by associate arrays? Discuss.	[7]
6	a)	How to find the exit status of a command? Discuss.	[8]
	b)	Write a shell script for performing the arithmetic operations.	[7]
7	a)	Explain about the features of C shell.	[8]
	b)	Write a shell script to print the reverse sting on the screen.	[7]
8	a)	Explain any four operations that can be performed on a file.	[8]
	b)	Write a program to print file contents in reverse order.	[7]

Code No: **R42029**   # R10   **Set No. 2**

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1 a) Explain about the architecture of the Unix.   [7]

   b) Explain the commands *uname*, *mkdir*, more and *wc* with examples.   [8]

2 a) What is the importance of *tr* and *cpio* commands? Explain with examples. [8]

   b) Discuss about any four text processing utilities with examples.   [7]

3 a) Differentiate between cat and tee commands.   [5]

   b) Explain about the redirection operators with examples.   [7]

   c) What is command substitution? Give examples.   [3]

4 a) What are different commands are there in *grep* family? Explain the importance
       of each and also explain various options of it with examples.   [8]

   b) Write a shell script to print the lines which are not containing the "unix" word. [7]

5 a) Differentiate between *grep* and *awk*.   [8]

   b) Explain various commands in *awk* with examples.   [7]

6 a) Explain about the features of Korn shell.   [8]

   b) Write a shell script for finding the GCD between the given numbers.   [7]

7 a) Explain about the looping statements in c shell.   [8]

   b) Write a shell script to find whether the given no is strong no or not. [7]

8 a) What is file? What are different types of files? Explain.   [8]

   b) Write a program to display file contents on the screen.   [7]

Code No: **R42029**   **R10** | **Set No. 3** |

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Answer any FIVE Questions
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*****

1	a)	Is cp is similar to mv? Explain with examples	[3]
	b)	Explain the commands tar, pwd, more and script with examples.	[7]
	c)	Write a shell program to copy one file contents into another file without using cp command.	[5]
2	a)	How many modes are there for vi editor? Explain the keys used in each mode.	[8]
	b)	Explain about the *grep* family with examples.	[7]
3	a)	Which command is used to find the no of lines, characters and words in a file? Explain with examples.	[8]
	b)	Write a program to print command line arguments on the screen.	[7]
4	a)	Discuss about the addresses in *sed* command.	[8]
	b)	What are the applications of *sed* command? Explain.	[7]
5	a)	Discuss about mathematical functions that can be used in *awk* command.	[8]
	b)	What is the importance of patterns and action section in *awk* command? Discuss.	[7]
6	a)	How arguments validation is done? Discuss.	[8]
	b)	Write a shell script for printing the n_{cr} value.	[7]
7	a)	How commands are executed in C shell? Discuss.	[5]
	b)	Write a shell script to find whether the given no is Armstrong or not.	[10]
8	a)	Explain any four operations that can be performed on a directory.	[8]
	b)	Write a program to display only directories in a directory.	[7]

Code No: **R42029**   **R10**   **Set No. 4**

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Answer any FIVE Questions
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*****

1 a) Explain about the commands *date*, *sty*, *rm* and *od*.   [8]

   b) Write a shell program for display contents on screen without using cat
       command.   [7]

2 a) What are the permissions used for providing security for files? How to give
       permissions for a file? Explain.   [8]

   b) Explain about different networking utilities.   [7]

3 a) Discuss about the types of the variables with examples.   [8]

   b) Write a shell script to concatenate two files.   [7]

4 a) What is the need of the *grep* command? Discuss various options of the grep
       and its importance with examples.   [8]

   b) Differentiate between *sed* and *grep* commands.   [7]

5 a) Discuss about String functions that can be used in *awk* command.   [8]

   b) What are the applications of *awk* command?   [7]

6 a) What is the importance of *eval* command? Explain with one program.   [8]

   b) Discuss about the environment variables.   [7]

7 a) Explain about the special parameters in C shell.   [8]

   b) Write a shell script to find whether the given string is palindrome or not.   [7]

8 a) Which command is used to find the attributes of the file? Explain.   [8]

   b) Write a program to display all files in a directory.   [7]