Course Code: 18CS0532 **R18**

SIDDHARTH GROUP OF INSTITUTIONS:: PUTTUR
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QUESTION BANK (DESCRIPTIVE)

Subject with Code: Linux Programming (18CS0532) **Course & Branch**: B.Tech - CSE
Year & Sem: III - B.Tech & II - Sem **Regulation:** R18

UNIT –I

1.	a) Explain **date** command with its syntax and example.	[L1,CO1]	2M
	b) Explain **who** command with its syntax and example.	[L1, CO1]	2M
	c) Explain **passwd** command with its syntax and example.	[L1, CO1]	2M
	d) Explain **bc** command with its syntax and example.	[L1, CO1]	2M
	e) Explain **script** command with its syntax and example.	[L1, CO1]	2M
2.	a) Describe in detail about the structure of UNIX.	[L2,CO1]	5M
	b) How can you say that Unix operating system provides more security than other operating systems?	[L1,CO1]	5M
3.	What is meant by path and pathname in Unix? Explain them in detail?	[L1,CO1]	10M
4.	a) Express vi Editor and explain its modes.	[L6,CO1]	5M
	b) Briefly explain about the commands used in the vi Editor.	[L2,CO1]	5M
5.	Write about the operations that can be performed on both directories and file.	[L2,CO1]	10M
6.	a) What are the file types available in Unix? Discuss file operators with suitable examples?	[L1,CO1]	5M
	b) Illustrates about standard streams?	[L3,CO1]	5M
7.	a) Illustrate the user and group in Unix? Explain the related commands for changing ownership and group.	[L3,CO1]	5M
	b) Discuss about listing directories and files.	[L2,CO1]	5M
8.	a) Distinguish between time – sharing and client/server environment.	[L2,CO1]	2M
	b) Name the two categories of regular files. Does UNIX recognize the difference between these two categories? Explain your answer.	[L1,CO1]	2M
	c) Write syntax for changing ownership and group name on a given file/s?	[L3,CO1]	2M
	d) Discuss about various modes of vi editor.	[L2,CO1]	2M
	e) Write the command for the following i. To display time in GMT ii. To display time in format hour : minute : second	[L3,CO1]	2M
9.	(a) Explain the security levels provided in Unix environment. How to change permissions of a file?	[L4,CO1]	5M
	(b) Brief umask command.	[L1,CO1]	5M
10	a) Write about the operations unique to directories alone?	[L3,CO1]	4M
	b) Describe the commands listed below:	[L4,CO1]	6M

	i. mkdir ii. rmdir iii. cd		

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UNIT –II

1.	a) What is **emacs** option? Write the syntax to ON or OFF the option.	[L4,CO2]	2M
	b) What is **noglob** option? Write the syntax to ON or OFF the option.	[L4,CO2]	2M
	c) What is **verbose** option? Write the syntax to ON or OFF the option.	[L4,CO2]	2M
	d) What is **xtrace** option? Write the syntax to ON or OFF the option.	[L4,CO2]	2M
	e) What is **ignoreeof** option? Write the syntax to ON or OFF the option.	[L4,CO2]	2M
2.	Explain Variables with its characteristics and options.	[L3,CO2]	10M
3.	a) What is redirection? Explain it in detail.	[L1,CO2]	5M
	b) Explain in detail about command line editing with basic vi commands.	[L3,CO2]	5M
4.	a) Explain concatenate command with its options.	[L2,CO2]	4M
	b) Illustrate the following i) CDPATH ii) PATH iii) HOME iv) Primary prompt v) TERM	[L4,CO2]	6M
5.	a) What is JOB? Explain in detail foreground and background jobs. Give example.	[L1,CO2]	5M
	b) Explain sort command with its options.	[L2,CO2]	5M
6.	a) Explain command substitution with example.	[L3,CO2]	5M
	b) Explain about Command Execution?	[L2,CO2]	5M
7.	a) Discuss about Standard Streams? Explain Briefly.	[L2,CO2]	5M
	b) Discuss pipe and tee command with suitable example.	[L2,CO2]	5M
8.	a) Distinguish between a user-defined variable and predefined variable?	[L5,CO2]	5M
	b) Define a Variable and distinguish between a variable and value?	[L2,CO2]	5M
9	Explain (a) Aliases (b) Unix session	[L2,CO2]	5M
	C) Describe how to resume foreground and kill background job by using various kill options.	[L2,CO2]	5M
10.	a) What is an option? Mention at least three options and their use?	[L1,CO2]	5M
	b) Define Shell Customization?	[L1,CO2]	5M

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UNIT –III

1.	a) Explain **cmp** command with its syntax and example.	[L1,CO3]	2M
	b) Explain **diff** command with its syntax and example.	[L1, CO3]	2M
	c) Explain **comm** command with its syntax and example.	[L1, CO3]	2M
	d) Explain **cut** command with its syntax and example.	[L1, CO3]	2M
	e) Explain **paste** command with its syntax and example.	[L1, CO3]	2M
2.	What is mail? Explain it in detail.	[L1,CO3]	10M
3.	List all the commands associated with send mail with its actions performed.	[L1,CO3]	10M
4.	How remote access is done in Unix, detail it.	[L1,CO3]	10M
5.	Define filters and pipes with related commands?	[L1,CO3]	10M
6.	List the range command in the vi Editor and explanation.	[L1,CO3]	10M
7.	a) How text manipulation is done in vi? Explain.	[L1,CO3]	5M
	b) Explain about comparing files with examples?	[L2,CO3]	5M
8.	a) How files with duplicate lines are handled in Unix.	[L1,CO3]	5M
	b) Write a shell program for counting characters, words and line?	[L3,CO3]	5M
9.	Explain talk and write command.	[L2,CO3]	10M
10.	a) Differentiate telnet and ftp command.	[L5,CO3]	2M
	b) How do an undo command work in vi?	[L1,CO3]	2M
	c) Which command is used for translating characters? Also explain its options with examples.	[L1,CO3]	6M

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UNIT –IV

1.	(a) What would be the effect of the command **grep"^[A - Z]" file1**	[L1,CO4]	2M
	(b) What would be the effect of the command **grep "UNIX|Unix|unix" file1**	[L1, CO4]	2M
	(c) What would be the effect of the command **grep "UNIX$" file1**	[L1, CO4]	2M
	(d) What would be the effect of the command **grep "UNIX. UNIX" file1**	[L1, CO4]	2M
	(e) What would be the effect of the command **grep ".*" file1 > file2**	[L1, CO4]	2M
2.	Explain (i) Atoms ii) Operators	[L2,CO4]	10M
3.	a) Define the grep family?	[L1,CO4]	5M
	b) Mention the primary difference between fgrep and the other two members of the family?	[L2,CO4]	5M
4.	(a) What does a startup script consist of?	[L2,CO4]	5M
	(b) Write the basic script concepts orientes with Korn shell.	[L3,CO4]	5M
5.	a) What is meant by fast grep and extended grep.	[L1,CO4]	2M
	b) What is a dot?	[L1,CO4]	2M
	c) Use **awk** command and check its exit status. When is the result zero? When is the result nonzero? Check both cases.	[L1,CO4]	6M
6.	a) Discuss about Korn Shell and its Features?	[L2,CO4]	5M
	b) Explain about file contents and its directories?	[L2,CO4]	5M
7.	Describe the overview of Sed and awk ?	[L2,CO4]	10M
8.	List and explain the expressions involved in Korn shell.	[L1,CO4]	10M
9.	Define a Variable and distinguish between a variable and a value.	[L1,CO4]	10M
10.	a) What is an option? List Some options and their use.	[L1,CO4]	5M
	b) Illustrate the startup scripts (files) in the Korn Shell ?	[L4,CO4]	5M

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UNIT –V

1.	a) How arrays are processed using awk? b) Define trash file. c) Write about eval command. d) List and explain file status operators. e) Write about @ command.	[L1,CO5] [L1,CO5] [L2,CO5] [L1,CO5] [L3,CO5]	2M 2M 2M 2M 2M
2.	List the C shell features.	[L1,CO5]	10M
3.	Explain how the following are handled (i) Environmental variables (ii) on-off variable	[L2,CO5]	5M 5M
4.	a) What are the startup scripts in the C Shell?	[L1,CO5]	5M
	b) What are the shutdown scripts in the C Shell?	[L1,CO5]	5M
5.	Explain repetition.	[L2,CO5]	10M
6.	How decision making is done? Explain with program.	[L1,CO5]	10M
7.	Explain (i) special parameters (ii) command history	[L2,CO5]	5M 5M
8.	(a) How argument validation is done in csh?	[L1,CO5]	5M
	(b) How debugging scripts work in csh?	[L1,CO5]	5M
9.	Detail about the variables associated with C shell.	[L3,CO5]	10M
10.	List and explain the expressions involved in C shell.	[L1,CO5]	10M

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