



**SIDDHARTH GROUP OF INSTITUTIONS:: PUTTUR**  
(Autonomous)

**Siddharth Nagar, Narayanavanam Road – 517583**

**QUESTION BANK (DESCRIPTIVE)**

**Subject with Code:** Linux Programming (19CS0549) **Course & Branch:** B.Tech – ECE

**Year & Sem:** II & I

**Regulation:** R19

**UNIT -1**

1.	a) Describe in detail about the structure of UNIX.	[L2,CO1]	6M
	b) How can you say that Unix operating system provides more security than other operating systems?	[L1,CO1]	6M
2.	What information is presented when the following commands are entered? a) date    b) who    c) passwd    d) bc    e) script	[L1,CO1]	12M
3.	What is meant by path and pathname in Unix? Explain them in detail?	[L1,CO1]	12M
4.	a) Express vi Editor and explain its modes.	[L6,CO1]	6M
	b) Brief explain about the commands used in the vi Editor.	[L2,CO1]	6M
5.	Write about the operations that can be performed on both directories and file.	[L2,CO1]	12M
6.	a) What are the file types available in Unix? Discuss file operators with suitable examples?	[L1,CO1]	6M
	b) Illustrates about standard streams?	[L3,CO1]	6M
7.	a) Illustrate the user and group in Unix? Explain the related commands for changing ownership and group.	[L3,CO1]	6M
	b) Discuss about listing directories and files.	[L2,CO1]	6M
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]	4M
9.	(a) Explain the security levels provided in Unix environment. How to change permissions of a file?	[L4,CO1]	6M
	(b) Brief umask command.	[L1,CO1]	6M
10	a) Write about the operations unique to directories alone?	[L3,CO1]	4M
	b) Describe the commands listed below: i. mkdir    ii. rmdir    iii. cd	[L4,CO1]	8M

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**UNIT -2**

1.	a) What is redirection? Explain it in detail.	[L1,CO2]	6M
	b) Explain in detail about command line editing with basic vi commands.	[L3,CO2]	6M
2.	Explain Variables with its characteristics and options.	[L3,CO2]	12M
3.	Illustrate the following options? (a) emacs (b) noglob (c) verbose (d) xtrace (e) ignoreeof	[L4,CO2]	12M
	a) Explain concatenate command with its options.	[L2,CO2]	4M
4.	b) Illustrate the following a) CDPATH b) PATH c) HOME d) Primary prompt e) TERM	[L4,CO2]	8M
	a)What is JOB? Explain in detail foreground and background jobs. Give example.	[L1,CO2]	6M
5.	b) Explain sort command with its options.	[L2,CO2]	6M
	a) Explain command substitution with example.	[L3,CO2]	6M
6.	b) Explain about Command Execution?	[L2,CO2]	6M
	a) Discuss about Standard Streams? Explain Briefly.	[L2,CO2]	6M
7.	b) Discuss pipe and tee command with suitable example.	[L2,CO2]	6M
	a)Distinguish between a user-defined variable and predefined variable?	[L5,CO2]	6M
8.	b)Define a Variable and distinguish between a variable and value ?	[L2,CO2]	6M
	Explain (a) Aliases (b) Unix session	[L2,CO2]	6M
9.	C)Describe how to resume foreground and kill background job by using various kill options.	[L2,CO2]	6M
	a) What is an option? Mention at least three options and their use?	[L1,CO2]	6M
10.	b) Define Shell Customization?	[L1,CO2]	6M

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**UNIT -3**

1.	Explain talk and write command.	[L2,CO3]	12M
2.	What is mail? Explain it in detail.	[L1,CO3]	12M
3.	List all the commands associated with send mail with its actions performed.	[L1,CO3]	12M
4.	How remote access is done in Unix, detail it.	[L1,CO3]	12M
5.	Define filters and pipes with related commands?	[L1,CO3]	12M
6.	List the range command in the vi Editor and explanation.	[L1,CO3]	12M
7.	a) How text manipulation is done in vi? Explain.	[L1,CO3]	6M
	b) Explain about comparing files with examples?	[L2,CO3]	6M
8.	a) How files with duplicate lines are handled in Unix.	[L1,CO3]	6M
	b) Write a shell program for counting characters, words and line?	[L3,CO3]	6M
9.	What information is presented when the following commands are entered? (a) cmp      (b) diff      (c) comm      (d) cut      (e) paste	[L1,CO3]	12M
10.	a) Differentiate telnet and ftp command.	[L5,CO3]	3M
	b) How do an undo command work in vi?	[L1,CO3]	3M
	c) Which command is used for translating characters? Also explain its options with examples.	[L1,CO3]	6M

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**UNIT - 4**

1.	Explain (i) Atoms                      ii) Operators	[L2,CO4]	12M
2.	What would be the effect of the following commands:	[L1,CO4]	2M
	(a) grep “^[A - Z]” file1		2M
	(b) grep “UNIX Unix unix” file1		2M
	(c) grep “UNIX\$” file1		2M
	(d) grep “UNIX. UNIX” file1		3M
3.	(e) grep “.*” file1 > file2		3M
	a) Define the grep family ?	[L1,CO4]	6M
	b) Mention the primary difference between fgrep and the other two members of the family ?	[L2,CO4]	6M
4.	(a) What does a startup script consist of?	[L2,CO4]	6M
	(b) write the basic script concepts orientes with Korn shell.	[L3,CO4]	6M
5.	a) What is meant by fast grep and extended grep.	[L1,CO4]	3M
	b) What is a dot?	[L1,CO4]	3M
	c) Use <b>awk</b> 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]	6M
	b) Explain about file contents and its directories?	[L2,CO4]	6M
7.	Describe the overview of Sed and awk ?	[L2,CO4]	12M
8.	List and explain the expressions involved in Korn shell.	[L1,CO4]	12M
9.	Define a Variable and distinguish between a variable and a value.	[L1,CO4]	12M
10.	a) What is an option ? List Some options and their use.	[L1,CO4]	6M
	b) illustrate the startup scripts(files) in the Korn Shell ?	[L4,CO4]	6M

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**UNIT - 5**

1.	List the C shell features.	[L1,CO5]	12M
2.	Explain how the following are handled (i) Environmental variables (ii) on-off variable	[L2,CO5]	6M 6M
3.	a) what are the startup scripts in the C Shell?	[L1,CO5]	6M
	b) what are the shutdown scripts in the C Shell?	[L1,CO5]	6M
4.	Explain repetition.	[L2,CO5]	12M
5.	a) How arrays are processed using awk?	[L1,CO5]	3M
	b) Define trash file.	[L1,CO5]	3M
	c) write about eval command.	[L2,CO5]	2M
	d) List and explain file status operators.	[L1,CO5]	2M
	e) Write about @ command.	[L3,CO5]	2M
6.	How decision making is done? Explain with program.	[L1,CO5]	12M
7.	Explain (i) special parameters (ii) command history	[L2,CO5]	6M 6M
8.	(a) How argument validation is done in csh?	[L1,CO5]	6M
	(b) How debugging scripts work in csh?	[L1,CO5]	6M
9.	Detail about the variables associated with C shell.	[L3,CO5]	12M
10.	List and explain the expressions involved in C shell.	[L1,CO5]	12M