QUE	STION BANK 2020	
SIDDHARTH GROUP OF INSTITUTIONS :: PUTTUR (Autonomous) Siddharth Nagar, Narayanavanam Road – 517583 QUESTION BANK (DESCRIPTIVE) Subject with Code : LINUX PROGRAMMING(17IT608)		
Year & Sem: III-B.Tech & II-SemRegulation: R16		
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<u>UNIT –I</u>		
1. (a) Describe in detail about the structure of LINUX.	5M	
(b)What are the features of Linux operating system	5M	
2. What information is presented when the following commands are entered	? 5*2=10M	
(a) date (b) who (c) passwd (d) bc (e) script		
3. (a) Define vi Editor and explain its modes.	5M	
(b) Brief about the commands used in the vi Editor.	5M	
4. What are the file types available in Linux? Discuss file operators with suitable examples. 10M		
5. (a) Explain the security levels provided in Linux environment. How to cha	ange permissions of a file? 6M	
(b) Brief umask command.	4M	
6. What is user and group in Linux? Explain the related commands for changing ownership and group.		
	10 M	
7. Write about the operations unique to directories alone.	10M	
8. Write about the operations that can be performed on both directories and f	ïle. 10M	
9. What is meant by path and pathname in Linux? Explain them in detail.	10 M	
10. a) Distinguish between time – sharing and client/server environment.	2M	
b) Name the two categories of regular files. Does Linux recognize the dif	ference between these two	
categories? Explain your answer.	2M	
c) Write syntax for changing ownership and group name on a given file/s	2M	
d) Discuss about various modes of vi editor.	2M	
e) Write the command for the following	2M	
To display time in format hour:minute:second		

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<u>UNIT 2</u>

1. a)In how many ways a command can be executed?6	6M
b)write a shell script to count number of lines present in a text file 4	4M
2. What is redirection? Explain it in detail.1	10M
3. (a) How quotes are used in Linux, explain with example. 5	5M
(b) Brief about command line editing. 5	5M
4. Explain in detail foreground and background jobs. Give example.	10M
5. (a) Explain concatenate command with its options. 5	5M
(b) Explain sort command with its options. 5	5M
6. What command is used for translating characters? Also explain its options with e	examples.
1	10M
7.What is a filter?Illustrate all filters with appropriate examples 1	10M
8. What information is presented when the following commands are entered? 5	5*2=10M
(a) cmp (b) diff (c) comm (d) cut (e) paste	
9. Write a shell program for counting characters, words and line?	10M
10. Explain (a) Aliases (b) Linux session5	5+5=10M
10. a) Define pipes. 2	2M
b) Explain tee command.	2M
c) Compare and contrast the cmp command with the comm Command 2	2M
d) If your login shell is korn shell, can you create another korn shell as	
the child shell? What file descriptor designates the standard input stream,	
standard output stream and the standard error stream?	2M

e)What does "tail" command do.

2M

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<u>UNIT 3</u>

1.Differentiate atoms and operators in detail	12M
2.a)What is grep ?How it is useful ?	2M
b)Illustrate grep command functionality with following options	
(-c,-i,-n,-s,-v,-x,-f)	10M
3.Describe "Dot, class, anchor, back reference and single character" atoms	10M
4.Differentiate among grep, egrep and fgrep	12M
5. a)How does an "eval" command works	4M
b)Define Environmental variable?Explain about Environmental variables use	d
in korn shell	8M
6. How do you use a variable in korn shell?Describe different types of variables	
used in korn shell	10M
7.a)How do you check exit status of a command	2M
b)Illustrate decision making statements used in korn shell	10M
8. What is an expression? Describe about different expression forms used in korn shell 10M	
9.a)How do for-in and until loops work in korn shell?	4M
b)What are the special parameters and variables used in kornshell	8M
10. What would be the effect of the following commands:	5*2=10M
(a) grep"^[A - Z]" file1	
(b) egrep "LINUX Linux" file1	
(c) grep "Linux\$" file1	
(d) grep "^Linux\$" file1	

(e) grep ^...\$ file1

<u>UNIT 4</u>

1.Narrate how variable evaluation and substitution is done in korn shell with	
examples	12M
2.a)What is here document operator?write a shell script using it	6M
b)Define function.Describe How do you use functions in korn shell	6M
3. Narrate all built-in commands in korn shell With the help of shell prompt	12M
4.Write a shell script which simulate calculator	12M
5.a)What are the system variables used by "awk"	6M
b)Describe 3 data processing concepts used in "awk"	6M
6.a)Illustrate "awk" process flow	5M
b)calculate student average using "awk" script	7M
7.Define Associative array?Explain it with example "awk" scripts.	12M
8.Write about following string handling functions	
Length, index, substring, split, substitution, match and toupper, to lower	8M
9.Write an awk script to merge contents in two files.	4M
10. Narrate all "awk" statements in detail With example scripts .	12M

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<u>UNIT-5</u>

1.a)Write awk script to display only names and phone numbers from given file.	6M
b) Write awk script to count number of lines and words in a file.	6M
2. How do you find a line that matches a regular expression using awk	4M
3.What is remote access?Describe about few communication utilities.	10M
4.a)Explain how talk and write commands work?	6M
b)How does "telnet" command work?explain it with example .	6M
5.Describe in detail about domain levels used with "mail" utility.	8M
6.Narrate about commands used to send a mail in Linux environment.	12M
7.Write in detail about telnet interface commands.	7M
8. Narrate about commands used to read a mail in Linux environment.	12M
9. What is ftp? Illustrate how files can be transferred between two systems with	
Appropriate commands.	12M
10.Illustrate features of awk in detail with appropriate examples	12M