UNIX AND SHELL PROGRAMMING (16CS516)

QUESTION BANK 2019

SIDDHARTH GROUP OF INSTITUTIONS :: PUTTUR

(Autonomous)

Siddharth Nagar, Narayanavanam Road – $517583\,$

QUESTION BANK (DESCRIPTIVE)

Subject with Code : UNIX AND SHELL PROGRAMMING (16CS516) Course & Branch: B.Tech - CSE

Year & Sem: III-B.Tech & I-Sem

Regulation: R16

<u>UNIT –I</u>

1. (a) Describe in detail about the structure of UNIX.	5M
(b) How can you say that Unix operating system provides more security than o	ther operating
systems?	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 Unix? Discuss file operators with suitable e	examples. 10M
5. (a) Explain the security levels provided in Unix environment. How to change p	bermissions of a file? 6M
(b) Brief umask command.	4M
6. What is user and group in Unix? Explain the related commands for changing o	wnership 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 file.	10 M
9. What is meant by path and pathname in Unix? 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 UNIX recognize the different	nce 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
i. To display time in GMT	
ii. To display time in format hour: minute: second	



QUESTION BANK 2019

<u>UNIT 2</u>

1. Explain Variables with its characteristics and options.	10 M		
2. What is redirection? Explain it in detail.	10 M		
3. (a) How quotes are used in Unix, explain with example.	5M		
(b) Brief about command line editing.	5M		
4. Explain in detail foreground and background jobs. Give example.	10 M		
5. (a) Explain concatenate command with its options.	5M		
(b) Explain sort command with its options.	5M		
6. What command is used for translating characters? Also explain its options with examples.			
	10 M		
7. How files with duplicate lines are handled in UNIX.	10 M		
8. What information is presented when the following commands are entered?	5*2=10M		
(a) cmp (b) diff (c) comm (d) cut (e) paste			
9. Write a shell program for counting characters, words and line?	10 M		
10. Explain (a) Aliases (b) Unix session	5+5=10M		
10. a) Define pipes.	2M		
b) Explain tee commands.			
c) Compare and contrast the cmp command with the comm Command	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) List out 'here' document and append redirection operators with example.	2M		

UNIX AND SHELL PROGRAMMING (16CS516)

<u>UNIT 3</u>

1. Explain talk and write command.					10M
2. What is mail?	? Explain it i	n detail.			10M
3. List all the commands associated with send mail with its actions performed.				10 M	
4. How remote access is done in Unix, detail it				10M	
5. How files are	transferred	from client to s	server and vice	e versa.	10 M
6. What will hap	open when th	ne following co	ommand is typ	ed inside the VI Editor	? Give example.
(a) I (b) A	(c) ~	(d) p	(e) J	5*2=10M
7. List the range	command i	n the VI Editor	r and explanat	ion.	10M
8. How text man	nipulation is	done in VI? E	xplain.		10M
9. Explain (a) A	toms (b) Op	erators			5+5=10M
10. What would	be the effec	t of the follow	ing commands	5:	5*2=10M
(a) grep"^ [A - 2	Z]" file1				
(b) egrep "UNI	X Unix unix'	'file1			
(c) grep "UNIX	\$" file1				
(d) grep "UNIX	. UNIX" fil	e1			
(e) grep ".*" file	e1 > file2				
11. a) Different	iate telnet an	d ftp command	4		2M
		grep and exter			2M 2M
	•	grep and exter	nded grep.		
c) What is a	dot?				2M
d) How do a	in undo com	mand work in	VI editor?		2M
e) Use awk command and check its exit status. When is the result zero? When is the result					
nonzero?	Check both	cases.			2M

UNIX AND SHELL PROGRAMMING (16CS516)

1. Explain the following	ng commands related	d to sed.		6+3+3=10M
(a) modify commands (b) substitute commands (c) hold space commands				
2. List Korn shell feat	ures.			10 M
3. (a) How input is rea	d in Korn shell.			5+5=10M
(b) What is eval con	mmand?			
4. What do the follow:	ing options?			5*2=10M
(a) emacs	(b) noglob	(c) verbose	(d) xtrace	(e) ignoreeof
5. (a) what does a star	tup script consist of.			5M
(b) Explain the basi	c script concepts ori	entes with Korn	shell.	5M
6. How decision maki	ng is done? Explain	with a program.		10 M
7. Explain repetition.				10 M
8. (a) How argument	validation is done?			5M
(b) How shift comm	nand work?			5M
9. List and explain the	expressions involve	ed in Korn shell.		10 M
10. Explain (a) special	l parameters (b) spec	cial variables		5+5=10M
11. a) Distinguish betw	ween a script file and	l an input file.		2M
b) What does the f	following options we	ork with modify	command. i,a,c,d	2M
c) Distinguish betw	veen the three standa	rd streams.		2M
d) List the relation	al patterns supported	by Korn shell.		2M
e) What is meant b	y child shell execution	on?		2M

<u>UNIT 4</u>

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<u>UNIT 5</u>

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