

RAN-2011000105020001

T.Y.BCA (Sem-V) Examination

January - 2021

P-502 UNIX and SHELL Programming

		9	e			
Time:	3 H	ours]	[Total Marks: 70			
સૂચના :	/ In	structions				
(9)						
		❤ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી. ctly the details of ❤ signs on your answer book	Seat No.:			
		e Examination:				
T	.Y.BC	CA (Sem-V)				
_		e Subject :				
		UNIX and SHELL Programming				
Subjec	ct Cod	e No.: 2011000105020001	Student's Signature			
(3) M	entic	on Option clearly	(d.A.)			
Q-1.		Answer in short (Any seven)	(14)			
		What the -r option of rm command will do?				
		What command Is-a do?				
		Explain the purpose of super block.				
		What is exit status of a command?				
		What is the purpose of /bin directory of Unix file	system?			
		What do you mean by a daemon? List out them.				
		What do you mean by sticky bit?				
	8.	Explain the use of tee command.				
Q-2.		Answer the following: (Any two)	(14)			
	1.	Explain features of Unix Operating System.				
	2.	Explain the directory structure of UNIX OS.				
	3.	The booting process of UNIX with init process.				

Q-3.	(a) Explain positional parameters of the shell.									(6)	
	(b)	Write a shell script to check whether entered file exists or not.								(5)	
		OR									
	(a) Write a shell script to check whether entered file readable or not.									(5)	
	(b) Explain at and batch commands.										
0.4	(2)	Explain sed command with its subcommands									
Q-4.	(a) Explain sed command with its subcommands. OR										
	(a)	What is a link? How to create soft link and hard link?									
	(b)	Select the right answer for the following questions (Any five):									
	(0)	 Which of the following commands is used to update access and modification times of a file? 								(5)	
			A. grep	B.	wc	C.	touch	D.	cat		
		2. Which of the following is not a communication command?									
			A. Write	B.	mesg	C.	mail	D.	grep		
		3. Which of the following keys is used to replace a single character with new text?								h	
			A. S	B.	S	C.	R	D.	C		
		4.	Which comman	ıd is ı B.	used to extrac	-	cific colungrep		rom the file?		
		5. Which symbol will be used with grep command to match the pattern at the beginning of a line?								pat	
			A. ^pat	B.	\$pat	C.	pat\$	D.	pat^		
	6. Which command is used to sort the lines of data in a file in								ile in reverse o	rder?	
			A. sort	B.	sh	C.	st	D.	sort-r		
	(c)) Explain following commands: (Any two)									
		1.	Is								
		2.	kill								
		3.	umask								
Q-5.	(a)	Ans	swer the followi	ng: (Any two)					(6)	
		1.	1. Explain while loop with examples.								
		2. Explain pipes in Unix with example.									
		3. Explain append and change commands of sed utility.									

- (b) Select correct answer for the following questions (Any four)
 - 1. Select a command to run a utility \times 1 at 10:00 AM.
 - a. \$ at $10:00 \times 1$
 - b. \$ batch $10:00 \times 1$
 - c. \$ crontab 10:00 × 1
 - d. All of the above
 - 2. Select a command to replace 'UNIX KERNEL' with 'KERNEL' from line no 10 to 20 in file a1.txt.
 - a. sed -e '10,20/s/UNIX KERNEL/KERNEL/' al.txt
 - b. sed -e '10,20//UNIX KERNEL/KERNEL/g' al.txt
 - c. sed -e '10,20//UNIX KERNEL//KERNEL//' al.txt
 - d. sed -e '10,20/r/UNIX KERNEL/KERNEL/' al.txt
 - 3. Select a command to display all blank lines between line 20 and 30 of file test.txt.
 - a. \$ sed -e '20,30/ $^\$$ /p' test.txt
 - b. \$ sed -e '20,30/\$/p' test.txt
 - c. \$ sed -e '20,30/\$/p' test.txt
 - d. \$ sed -e '20,30//p' test.txt
 - 4. Select a command to list file names consist of only 4 digits.
 - a. \$ find. -name '[0-9] [0-9] [0-9] [0-9]' print
 - b. \$ Is | grep -E '^[0-9]+\$'
 - c. \$ Is [0-9] [0-9] [0-9] [0-9]
 - d. All of the above
 - 5. Select a command to display the lines that do not contain "Unix" in unix. txt.
 - a. \$ grep -vi Unix unix.txt
 - b. \$ grep -ic Unix unix.txt
 - c. \$ grep -xi Unix unix.txt
 - d. \$ grep -cl Unix unix.txt
- (c) Explain any two communication commands. (4)

(4)