

15CS35

Third Semester B.E. Degree Examination, July/August 2021
Unix and Shell Programming

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions.

1	a. b.	With a diagram, explain the architecture of UNIX Operating System. Explain the following commands with examples:	(08 Marks)
	U.	i) echo ii) (s iii) date iv) who.	(04 Marks)
	c.	Differentiate between External and Internal commands in UNIX.	(04 Marks)
2	a.	Explain the salient features of UNIX Operating System.	(08 Marks)
_	b.	Explain the commands used to add and delete a user with examples.	(04 Marks)
	c.	Write a note on Man documentation.	(04 Marks)
3	a.	Illustrate with a diagram, typical UNIX file system and explain different ty	pes of files
	۵.	supported in UNIX	(08 Marks)
	b.	Name the command used to creating, deleting and changing the directory. Ex	xplain them
		with syntax and example.	(08 Marks)
4		Name the command used for listing file attributes. Explain the significance of each	ch field in
4	a.	the output	(08 Marks)
	b.	Write the chmod exp	ressions
		required to change them for the following:	
		i) rwxrwxrwx ii) rr iii)r iv)	
		Using both Relative and Absolute methods of Assigning permissions.	(08 Marks)
5	2	Explain the three different modes in which 'Vi' editor works.	(08 Marks)
5	a. b.	List and explain the navigation commands in Vi editor with example.	(08 Marks)
.5.		Explain the 3 sources for standard input and standard output with respect to UNI	X Operating
6	a.		(08 Marks)
	b.	System. With suitable example, explain the grep command and its various options.	(08 Marks)
	D.		
7	a.	Explain the Shell features of 'if', 'case', 'while' and 'for' with syntax.	(08 Marks)
	b.		g options.
		i) List of files ii) Contents of a file iii) Current date	(08 Marks)
		iv) List of users v) Quit to UNIX.	(00 1/11/15)
8	a.		(08 Marks)
	b.		(00 M)
		i) head ii) tail iii) cut iv) paste	(08 Marks)
9	a.	Explain the mechanism of Process Creation.	(08 Marks)
,	b.	The state of the s	
		i) at ii) cron iii) nice iv) nohup.	(08 Marks)
4.4) -	Explain the following string handling functions of PERL with examples:	
10		i) length ii) index iii) substr iv) reverse.	(08 Marks)
	h	Write a PERL program to determine whether the given year is leap of not.	(08 Marks)