STITUTE OF 28	CBCS SCHEME		
USN			

15CS35

## Third Semester B.E. Degree Examination, Dec.2019/Jan.2020 Unix and Shell Programming

Time: 3 hrs.

Max. Marks: 80

	Λ	lote: Answer any FIVE full questions, choosing ONE full question from each m	odule.
		Module-1	
1	a.	Describe the salient features of UNIX Operating System.	(07 Marks) .
	b.	Write the general structure for command usage in UNIX.	(03 Marks)
	c.	Explain in detail the commands needed for user management.	(06 Marks)
		OR	
2	a.	Compare and contrast External and Internal commands.	(04 Marks)
	b.	Mention the use of following commands:	,
		(i) script (ii) cat (iii) who (iv) pwd	
		(v) Is (iv) cal	(12 Marks)
3	a.	Module-2  Elaborate on absolute and relative pathnames with suitable example.	(O4 Mayles)
J	b.	With a neat diagram explain the UNIX file system organization that explains	(04 Marks)
	0.	relationship.	(09 Marks)
	c.	Describe the /etc/shadow folder in UNIX file system.	(03 Marks)
,		OR	
4	a. b	Demonstrate the usage of any five commands related to files and directories.	(10 Marks)
	b.	Illustrate the usage of ls command along with various options.	(06 Marks)
		Module-3	
5	a.	Define vi editor. Explain the different modes of vi editor.	(10 Marks)
	b.	Write the wildcards for the following:	(
	No.	(i) name of a person containing only alphabets	
		(ii) marks of student 0 to 80	
		(iii) all names of the starting with lab	
		(iv) vowels of English alphabet (v) names of students not starting with x, y and z	
		(v) names of students not starting with x, y and z	
		(vi) a single character after f.	(06 Marks)
O.D.			
6	a.	OR  Illustrate the usage of three standard files used in the shell.	(06 Marks)
•	b.	Briefly explain the application of local shell variables.	(00 Marks)
	c.	Write a note on grep.	(03 Marks)
			,

(07 Marks)

		Module-4		
7	a.	Define Environment Variable. Explain some environment variables.		
,	b.	Explain Positional Parameters.	(05 Marks)	
	c.	Differentiate Hard and Softlink.	(05 Marks)	
	٠.			
		OR		
8	a.	Write a shell program to find the factorial of a number.		
U	b.			
	c.	Given a file		
	C.	emp.lst		
		101 cse pabubali prof 1234567890		
		110 ise vikram prof 6789012345		
		121 civ pratap Asst prof 1234567899		
		156 auto chennamma prof 9900011111		
		101 cse bahubali prof 1234567890		
		252 mech karuna prof 2222333344		
		(i) display the top 5 employees of emp. lst.		
		(ii) display the last 4 employees of emp.lst.		
		(iii) cut the 3 <sup>rd</sup> field of emp.lst.	(07 Marks)	
		Module-5		
9	a.	Explain the following:		
	u.	(i) PS (ii) PID (iii) Zombie (iv) nice	(08 Marks)	
	b.	Name the different phases of Process Creation. Explain.	(08 Marks)	
	٠.			
		OR		
10	a.	Mention the operators used for string comparison in Perl.	(03 Marks)	
	b.	The state of the s		
	٠.	El 1 de la company la dina functions yeard in Perl with suitable example	(07 Marks)	

Elaborate on array handling functions used in Perl with suitable example.