Max. Marks: 80

Third Semester B.E. Degree Examination, June/July 2019 UNIX and Shell Programming

Note: Answer any FIVE full questions, choosing ONE full question from each module, Module-1 a. With a neat diagram, explain the architecture of UNIX operating system. 1 (08 Marks) b. Describe the salient features of UNIX operating system. (08 Marks) OR 2 a. Explain the following commands with example: ii) echo iii) date (06 Marks) b. What are internal and external commands? List any two examples. (04 Marks) c. With the help of examples, explain (i) man man (ii) apropos (06 Marks) Module-2 a. Explain the different types of files supported in UNIX. (06 Marks) b. What is parent-child relationship? With the help of neat diagram, explain UNIX file system tree. (06 Marks) c. With suitable example, bring out the difference between absolute and relative pathnames. (04 Marks) OR a. Briefly describe the significance of the seven fields of the 'ls -1' command. (08 Marks) b. File current permissions are rw w r . Write chmod expression required to change them for the following:

Module-3

5 a. What are the different modes of operations in Vi editor? Explain with a suitable diagram.

(i) r__r__x (ii) rwxrwx_x (iii) rxrxrx (iv) rwxrwxr

using both relative and absolute methods of assigning permissions.

(08 Marks)

(08 Marks)

b. Write the output for the following UNIX commands:

i) mv * ··/bin

Time: 3 hrs.

ii) cp ?????? progs

iii) lp note[0-1][0-9]

iv) rm *·[![][!o][!g]

(04 Marks)

c. Explain concept of Escaping and Quoting with suitable example.

(04 Marks)

OR

a. What are the three standard files in UNIX?

(06 Marks)

b. Explain 'grep' command with its options.

(06 Marks)

c. Write the output of the following:

i) sed '3q' abc

ii) ls - 1/grep ' \wedge d' >directories

iii) sed -n '\$p' abc

iv) sed -n '3, \$!p' abc

(04 Marks)

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		Module-4 Explain the following environment variables with example each:	
7	a.	i) SHELL ii) LOGNAM iii) PATH iv) PS1	(04 Marks)
	b.	Explain sort command with options.	(08 Marks)
	c.	What are hard link and symbolic links?	(04 Marks)
		OR	(00 M - I)
8	a.	Explain special parameters used by the shell.	(08 Marks)
	b.	Write a menu driven shell script to display list of files, process of user, today	s date and
		users of the system.	(08 Marks)
Module-5			
0		Explain the mechanism of process creation using system in UNIX.	(06 Marks)
9	a.	Explain here document (<<) with an example. Also mention its use.	(04 Marks)
	b.	Explain the following commands with example: (i) kill (ii) bg (iii) fg	(06 Marks)
	c.	Explain the following communes with examples (5)	
OR			
10	a.	Explain split and join functions with example.	(04 Marks)
10	b.	How is file managed in perl? Explain with an example.	(04 Marks)
	c.	Using command line arguments, write a Perl program to find whether a given	year is leap.
			(06 Marks)