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		REPROSE SCHEIME	
USN			15CS35
		Third Semester B.E. Degree Examination, June/July 2017 Unix and Shell Programming	
Tin	ne: .	3 hrs. Max. Ma	rks: 80
	N	ote: Answer any FIVE full questions, choosing one full question from each mod	ule.
		Module-1	
1	a. b.	With the help of a diagram, explain the parent - child relationship in Unix File Sys	(08 Marks) tem. (04 Marks)
	c.	Explain the following commands with the syntax and example:	(04 Marks)
		OR	
2	a. b.	Differentiate between external and internal commands in Unix with suitable examp	(08 Marks) de. (04 Marks)
	c.	Explain the following commands with syntax and example:	(04 Marks)
3	a.	Module-2  Illustrate with a diagram typical Unix file system and explain different types	s of files
		supported in Unix.	(08 Marks)
	b.	Name the command used for creating, deleting and changing the directory. Explain syntax and example.	n with the (08 Marks)
		OR	
4	a.	Which command is used for listing file attributes? Explain the significance of each	
	b.	the output. Files current permissions are $rw - w - r - w$ write chmod expressions required them for the following.	(08 Marks) to change
		i) r r x ii) rwxrwx x iii) r - xr - xr - x iv) rwxrwxr Using both relative and Absolute methods of assigning permissions.	(08 Marks)
		Module-3	
5	a.	Explain the three modes of Vi and explain how can you switch from one mode to a	nother. ( <mark>04 Marks)</mark>
	b.	Explain what these wild – card pattern match: i) $[A - Z] ????^*$ ii) $[!0 - 9]^*$ iii) $* \cdot [!S] [!h]$	( <del>06</del> Marks)
	c.		(06 Marks)
		OR	
6	a.	Briefly explain the extended Regular expression with an example.	(06 Marks)
	b.	Explain the three sources of standard input and standard output.	(04 Marks)

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- c. Write the Unix commands for the following:
  - i) Find and replace all the occurrences of "Unix" with "UNIX" in the text file after confirming the user. [Vi editor command].
  - ii) To delete all files with three character extension except "·out" from current directory.
  - iii) List all the files in PWD which are having exactly five characters in their filename and any numbers characters in their extension.
  - iv) Writing the first 50 lines to another file. [Vi editor command].
  - v) Inserting a text at the beginning of the line. [Vi editor command].
  - vi) Searching for a pattern in backward direction.

(06 Marks)

## Module-4

- 7 a. What is shell programming? Write a shell program to create a menu and execute a given options based on users choice. Options include
  - i) List of usersiv) Current date
- ii) List of processesv) Content of files
- iii) List of files

(10 Marks)

- b. Explain the following with an example: i) head
- ii) tail iii) cut.

vi) Display current login users.

(06 Marks)

#### OR

- 8 a. What is shell script? Explain the following statements with syntax and example:
  - i) if ii) case ii
- iii) while.

(10 Marks)

b. Distinguish between hard links and soft links with suitable example.

(06 Marks)

# Module-5

9 a. Write a Perl script to determine whether the given year is a leap year or not.

(08 Marks)

b. Explain the mechanisms of process creation.

(06 Marks)

c. What is an associative array?

(02 Marks)

### OR

10 a. Explain the following in PERL with example. i) Split iii) Join.

(08 Marks)

b. Explain variables and operators in PERL.

(06 Marks)

c. Briefly explain the subroutines in PERL.

(02 Marks)

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