

CBCS SCHEME

15CS35

hird Semester B.E. Degree Examination, Aug./Sept. 2020
UNIX and Shell Programming

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Explain the salient feature of UNIX operating system. (06 Marks)
 - b. Give the significance of the seven fields of ls—l command. (06 Marks)
 - c. Explain with example internal and external commands of UNIX. (04 Marks)

OR

- 2 a. Briefly explain the UNIX architecture. (07 Marks)
 - b. Explain the following commands with example.
 i) echo ii) \(\ext{ls} \) iii) who iv) date v) cal.

 (05 Marks)
 - c. Explain the commands to add and delete user. (04 Marks)

Module-2

- 3 a. Draw the tree structure of the file system created by the following commands (assume you are in the directory/user/office). Why is it not possible to issue the command rmdir/user/office/right.
 - \$ mkdir left
 - \$ mdkir middle
 - \$ mkdir right
 - \$ cd left
 - \$ mkdir left middle right
 - \$ cd..../middle
 - \$ mkdir dir1 dir2/user/office/right/dir3.

(08 Marks)

b. Which command is used for listing file attributed? Explain briefly the significance of each field of the output. (08 Marks)

OR

- 4 a. What is file permission? Explain how to use "chmod" command to set the permissions in a relative manner with an example. (08 Marks)
 - b. Explain absolute method of changing permissions with example. (08 Marks)

Module-3

5 a. Explain "grep" command with all options.

(08 Marks)

b. Explain 3 standard files with respect to UNIX.

(08 Marks)

OR

6 a. Define wild card, explain shell wild card.

- (06 Marks)
- b. What are Extended Regular Expression (ERE)? Explain any four ERE set used by "grep" and "egrep". (06 Marks)
- c. Explain shell interpretive cycle.

(04 Marks)

42+8=50, will be treated as malpractice. cross lines on the remaining blank pages. Any revealing of identification, appeal to evaluator and /or equations written eg, answers, compulsorily draw diagonal On completing your Important Note: 1.

		Module-4	
7	a.	Distinguish between hard links and soft links with example.	(06 Marks)
	b.	Explain the shell features of: i) while ii) "for" with syntax.	(06 Marks)
	c.	Write a shell script to print first 10 numbers (1 to 10).	(04 Marks)
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0		OR Discuss head and tail command along with its options.	(08 Marks)
8	a. b.	Explain the following statement with example:	A CONTRACT C
	0.	i) "if" ii) while iii) case.	(08 Marks)
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9	a.	Briefly explain variables and operators in Perl.	(06 Marks)
	b.	Explain the following: i) split ii) Join in Perl.	(06 Marks)
	c.	Write a PERL script to demonstrate the use of "chop" function.	(04 Marks)
		OR	
10	a.	Explain mechanism of process creation.	(08 Marks
	b.	Write a Perl script to read letters NEWS from command line and display their a	abbreviation (08 Marks
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