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B. E. (Sixth Semester) Examination, Nov.-Dec. 2021

(New Scheme)

(IT Branch)

UNIX & SHELL PROGRAMMING

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: Attempt all questions. Part (a) of each question is compulsory and carry 2 marks.

Attempt any two parts from (b), (c) and (d) of each question and carry 7 marks each.

Unit-I maps entralles i fusis

1. (a) Illustrate output of ls -I command.

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(b) Describe various modes of vi editor and demonstrate commands for following:

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		[2]
	(i)	Switch to insert mode
	(ii)	To move cursor down
	(iii)	Undo last editing
	(iv)	To delete a single character
(c)		strate head and tail command in detail with mple.
(d)	De	monstrate command for the following:
	(i)	To view reference manual of data command.
	(ii)	To remove nonempty directory newdir.
	(iii)	To interactively copy the content of oldfile to newfile.
	(iv)	To sort the file in reverse order.
	(v)	Combine the contents of file1 and file2 into another file named 'file3'.
	(vi)	To rename file1 to testfile.
	(vii)	To display currently logged in users with column
		heading.
		Unit-II

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2.	(a) Define Shell.	4
	(b) Demonstrate a shell script that accepts a filename and displays beginning and end of file. It also accepts starting and ending line numbers and display all the lines between the given range.	,
	(c) Demonstrate a shell script that compare two files	
	and delete one if both the file are same.	,
	(d) Explain various shell meta-characters in detail.	8
	gramming was for any worth. It is supplied to the same of the	
3.	(a) Explain following command line in brief.	
	Grep main a.c b.c. c.c wc -1	1
	(b) Illustrate awk Programming structure in detail.	,
	Wire and our time and a limit in the land	
	(c) Explain any 7 flags of grep command with example.	,
	(d) What is Sed? Explain its syntax. Illustrate all the	
	associated actions.	,
	Unit-IV	

4. (a) Explain two special files that are used by any shell. 2

	(b)	How a korn shell script will debug? Explain debugging	
		with the help of an example.	7
	(c)	What are the various special parameters used in	
		korn shell? Explain.	7
		Explain various korn shell features.	7
		unit-Vid it our prikts fine.	
5.	(a)	Define Inode. a sub-service leady surement uniform of the	2
	(b)	Explain structure of a regular file in Unix operating	
		system.	7
	(c)	Write an algorithm for conversions of a path name	
		to an inode.	7
	(L)	harden entenues polariane esta esta entenues forta	
	\ /	Explain following system calls: (i) open()	/
	1	(ii) read() III a mineral in many of these are smilled to	-
		(iii) stat()	
		(iv) Iseek()	