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3E1655

## 3E1655

Total No. of Pages : 3

B. Tech. (Sem. III) (Main / Back) Examination, December - 2017

3CS4A Linux and Shell Programming

Time: 3 Hours

Maximum Marks : 80

Min. Passing Marks : 26

Attempt any five questions, selecting one question from each unit.

All Questions carry equal marks. Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used / calculated must be stated clearly.

Use of following supporting material is permitted during examination. (Mentioned in form No. 205)

## UNIT - I

- 1 (a) What is Permissions? How can we apply permissions for the files and directories?
  - (b) Explain the linux file system architecture with the help of its diagram.

OR

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1-

	(iii) (v)	uname Uname Is - IR mount -v-o gcc -o prog.c	ng commands with their syntax and examples :  (ii) stty  (iv) chmodx  (vi) ln  (viii) touch  UNIT - II	8×2=16
2	(a) ]	Explain the pro	ogramming utility in linux file system.	
38	<i>a</i>	SS	6	8
	(b) I	now can we u	ise the debugging C programs using gdb?	
			OR	8
2	(a) v	Vhat is exrc f	ile for different setting parameters ? Explain	
			Ivance editing techniques.	8
	9			8
			***	
			UNIT - III	. 7
	What do		y X? Explain different components of X an	d also describe
ţi	iic X-ci	nonta.	a m 2	.,
27			OR	16
3 W	Trite ch	ort notes on	the following:	
	2237	itre file	the following.	
		ncept of wind	low manager	
	-, -0.		wantagot.	0-1-16
				8×2=16
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## UNIT - IV

- st	
4 (a) What is redirection? Explain input output and error redire	
(b) Write short notes on :	8
(b) Write short notes on .  (i) Types of shell	
(ii) Command line editing	4×2=8
OR	
1 invlotion 2 Exp	ain.
4 (a) What do you mean by directory stack manipulation ( Exp.	8
(b) White about many and	
(b) Write short notes on :	
(i) Variables and keywords	
(ii) Piping process	4×2=8
UNIT - V	
5 (a) What is the Here document ? Explain.	
	8
(b) Write a shell script to generate the factorial of N numbers	using through
keyboard.	
	8
OR	
Explain the following terms:	
(i) Aliases (ii) Source code management	
(in) MILL or LISET variables	
(iii) awk utility (iv) NOLE of OSET variables.	4×4=16
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