{This qu	uestion paper contains 2 printed pages.]			
5184-D	Your Roll No			
B.Sc. (Prog.) / Sem. I B				
(Concurrent Course)				
MATHEMATICAL SCIENCES				
(	CSCT - 301 Linux System Administration			
	(Admissions of 2011 and onwards)			
Time: 3	3 Hours Maximum Marks :	7 <i>5</i>		
(Write your Roll No. on the top immediately on receipt of this question paper.)				
	All questions are compulsory.			
1. (a)	Explain the process of installation of Linoperating system. List any three Lindistributions available in market.	nux nux (8)		
(b)	(b) What do you understand by double booting? I			
	can you set default OS to be loaded?	(5)		
2. (a)	How can you view the processes that are current running on your Linux system? Explain varioptions available with this command?	•		
(b)	Explain the steps of adding and deleting proces in Linux OS.	sses (4)		
3. (a)	Explain the role of <i>init</i> process and <i>init</i> scrip Linux OS.	t of (4)		
(b)	Explain various options and modes of shutt down the Linux system.	(4)		

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4.	(a) Explain the following Linux shell scrip	t commands	
	along with examples		
	(i) grep		
	(ii) caseesac		
	(iii) chmod		
	(iv) who	(4×3=12)	
	(b) What is the output of each of the commands? Explain the output.	following	
	(i) grep 'whoami' /etc/passwd		
٠	(ii) tail +20 < du.txt   head -n30 >b	osc	
	(iii) who   wc -1 ·		
	(iv) ls > filename	(4×3=12)	
5.	(a) Write a shell script to display on the screen sorted output of "who" command along with the total		
	number of users.	. (5)	
	(b) Write a menu driven shell script to comove the file and remove the file buser's input.		
6.	Write short notes on any three of the f	ollowing:	
	(a) User management in Linux		
	(b) Network services in Linux .		
	(c) LILO and GRUB loader		
	(d) Various file systems in Linux		
	(e) inode structure	(4×3=12)	
		(300)****	