ROLL NO.	

Subject: UNIX & SHELL PROGRAMMING Code: AC109/AT109

AMIETE - CS/IT (New Scheme)

June 2018 Time: 3 Hours Max. Marks: 100

PLEASE WRITE YOUR ROLL NO. AT THE SPACE PROVIDED ON EACH PAGE IMMEDIATELY AFTER RECEIVING THE QUESTION PAPER.

NOTE: There are 9 Questions in all.

- Question 1 is compulsory and carries 20 marks. Answer to Q.1 must be written in the space provided for it in the answer book supplied and nowhere else.

Any required data not explicitly given, may be suitably assumed and stated.						
Q.1		hoose the correct or the best alternative in th	_	(2×10)		
	a.	What command is used to count the total number contained in a file?	ber of filles, words, and characters			
		(A) countw	(B) wcount			
		(C) wc	(D) count p			
	b.	What command is used to remove files?				
		(A) dm	(B) rm			
		(C) delete	(D) erase			
	c.	What command is used to remove the directory	y?			
		(A) rdir	(B) remove			
		(C) rd	(D) rmdir			
	d.	What command is used with vi editor to delete	a single character?			
		(A) x	(B) y			
		(C) a	(D) z			
	e.	What hardware architectures are not supported	•			
		(A) SPARC	(B) IBM-compatible			
		(C) Alpha	(D) Macintosh			
	f.	What does FSF stand for?				
		(A) Free Software File	(B) File Server First			
		(C) First Server First	(D) Free Software Foundation			
	g.	Which of the following is a valid format for m				
		(A) mount –t iso9660/dev/cdrom/mnt/cdrom	(B) mount /dev/cdrom			
		(C) mount /mnt/cdrom	(D) All of these			
	h.	What command do you use to create LINUX f	•			
		(A) fdisk	(B) mkfs			
		(C) fsck	(D) mount			
	i.	Which of the following command can you exe	cute to count the number of lines in a			
		file? (A) lc	(B) wc -1			
		LALL.	(I) / W(, -1			

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	j.	· ·				
		(A) grep (B) mail (C) mesg (D) write				
	Answer any FIVE Questions out of EIGHT Questions. Each question carries 16 marks.					
Q.2	a.	What are the advantages of installing multiple desktop environments on Lissystem. Describe root account with the help of suitable example privileges associated with it.				
Q.3	a.	What is the basic difference between BASH and DOS?	(8)			
	b.	Explain awk's built-in variables with examples.	(8)			
Q.4	a.	How do you change permissions under Linux?	(8)			
	b.	Explain the term CLI. And also write the advantages and disadvantage CLI.	es of (8)			
Q.5	a.	How can you determine the total memory used by LINUX? With suit examples, explain 3 kinds of file permissions under LINUX.	able (8)			
	b.	Linux initially was developed for intel X86 architecture but can be porte other hardware platform easily than any other Operating System. Do agree?				
Q.6	a. Write a shell program that prompts a user to input a character and prints the name or any thing that many times, with each c separate file.					
	b.	Discuss the array as functions in Pearl, with suitable example.	(8)			
Q.7	a.	What are hard links and soft links? Explain with example.	(8)			
	b.	Explain the following command with example. (i) grep (ii) mkdir (iii) cat	(8)			
Q.8	a.	Explain the modes of operation of vi editor with suitable example.	(8)			
	b.	What is the important role of kernel in Linux operating system? Describe relation between user kernel and shell with the help of suitable diagram.	the (8)			
Q.9	a.	Write a Shell Script to generate Fibonacci Series.	(8)			
	b.	Compare external and internal command in UNIX with suitable exame Explain, why cd command cannot be an external command?	nple. (8)			