ROLL NO.	

Code: AC109/AT109 Subject: UNIX & SHELL PROGRMMING

AMIETE - CS/IT {NEW SCHEME}

Time: 3 Hours	DECEMBER 2014	Max. Marks: 100
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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.

		the answer book supplied and nowhere else.		
	ne answer sheet for the Q. ne commencement of the ex	I will be collected by the invigilator after 45 minutes of		
		GHT Questions answer any FIVE Questions. Each		
qι	uestion carries 16 marks.			
• An	ny required data not expli	citly given, may be suitably assumed and stated.		
Q.1	Choose the correct or the best alternative in the following: (2×10)			
	a. Which command is u	sed to extract specific columns from the file?		
	(A) cat(C) grep	(B) cut (D) paste		
	b. Which of the following rather than its content	ng commands is used to display the directory attributes s?		
	(A) ls -l -d (C) ls -x	(B) ls -1 (D) is -F		
	to the owner, read a	Which of the following commands is used to absolutely assign all permissions to the owner, read and write permissions to the group and only executable permission to the others of the file note?		
	(A) chmod 761 note	(B) chmod 671 note		
	(C) chmod 167 note	(D) chmod $4 = \text{rwx}$, $g = \text{rw}$ note		
d. Which command is used with vi editor to search a pattern in the forv direction?		used with vi editor to search a pattern in the forward		
	(A) /	(B) ?		
	(C) //	(D) ??		
	e. Which command puts	a script to sleep until a signal is received?		
	(A) sleep	(B) suspend		
	(C) disown	(D) break		

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	f.	Which command is used to sort the lines of data in a file in alphabetical order?		
		(A) sort (C) St	(B) Sh (D) sort -r	
	g.	. Which system call waits for the child process to complete and return the exit status?		
		(A) sleep(C) delay	(B) wait (D) stop	
	h.	The 'logout' built in command is used to		
		(A) shutdown the computer(C) logout the current user	(B) logoff of the computer(D) to exit the current shell	
	i.	A user creates a link to a file file1 using the following command "1n file1 file2". Which of the following is not true?		n file1
		 (A) file 1 and file2 have the same in (B) The number of links for file1 is (C) The number of links for file1 is (D) The number of links for file2 is 	displayed as 1 displayed as 2	
	j.	What UNIX command is used to update the modification time of a file?		
		(A) time (C) cat	(B) modify (D) touch	
		Answer any FIVE Question Each question c	s out of EIGHT Questions. arries 16 marks.	
Q.2	a.	Explain the principal components: system.	Kernel and Shell, of the UNIX open	erating (4+4)
	b.	Explain absolute and relative pathna	ames with the help of examples.	(4+4)
Q.3	a.	What is the function of ls command use of -a, -l, -d and -R in it.	? List the different options and what	is the (4+4)
	b.	Explain the three modes of operation	n in vi editor.	(8)
Q.4	a.	List the steps that the shell undertak	tes in order to execute a given comma	and.(8)
	b.	What are pipes in Unix and what is	their use ?	(8)

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0.5 a. What is hard link and soft link? How can they be created? (3+3+2)b. Which command is used to change permission associated to File/Directories? List and explain methods to change permission of File/Directories. (2+6)a. What is the difference between a wild card and a regular expression? **Q.6** (4+4)b. What is the difference between Interval Regular Expression (IRE) and Tagged Regular Expression (TRE)? (4+4)**Q.7** a. What is the exit status of a command? What is its normal value and which shell parameter stores its value? **(8)** b. Explain the test command. **(8) Q.8** a. Explain in detail the simple awk filtering. **(6)** b. Explain with an example how if statement can be used in an awk command. (6) What is the difference between print and print \$0? **(4)** a. Explain the foreach loop in perl with the help of an example. **Q.9 (8)** b. Explain the following: (4+4)(i) chop function (ii) substr function