ROLL NO. _____

Code: AC109/AT109

Subject: UNIX & SHELL PROGRAMMING

AMIETE - CS/IT (New Scheme)

	3 Hours	DECEMBER 2018 ROLL NO. AT THE SPACE PRO		Max. Marks: 10	
IMME NOTE • Que the • The the • Out	CDIATELY AFTER C: There are 9 Question 1 is compute estion 1 is compute e space provided for e answer sheet for e commencement of t of the remaining estion carries 16 m	RECEIVING THE stions in all. sory and carries 20 or it in the answer be the Q.1 will be colle f the examination. ng EIGHT Question aarks.	<i>QUESTION P</i> marks. Answe bok supplied a cted by the inv ons answer an	PAPER. Fr to Q.1 must be written in	
Q.1	Choose the correct or the best alternative in the following				2×10
	 a. Which command is used to remove (A) rd (C) deldir 		a directory? (B) rmdir (D) rdir		
	 b. Which of the following commands is used to display the directory attributes rather than its contents? (A) ls -l -d (B) ls -x (C) ls -l (D) ls -F 				
	 c. Any file's attribute information is stored in which structure on the disk? (A) inode (B) Data blocks (C) File blocks (D) Directory file 				
	 d. Which command sends the word count of the file 'abc_file' to the 'xyz_file'? (A) wc abc_file >xyz_file (B) wc abc_file -xyz_file (D) wc abc_file xyz_file 				
	 e. The Octal number to be given along with chmod command to make a file readable, writable and executable to the owner, readable and executable to group and others is: (A) 000 (B) 755 (C) 744 (D) 555 				
	 f. Which command is used to delete the editor? (A) X (C) D 		 (B) x (D) d 		
	 g. Which command is used to sort the lines of data in a file in reverse order? (A) sort -a (B) sort -q (C) sort -t (D) sort -r 				
	 h. In the shell, by (A) string (C) character 	default, all variables	are considered (B) integer (D) metachar		

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Code: AC109/AT109 Subject: UNIX & SHELL PROGRAMMING i. If no file is specified in sed command then (A) sed command will not work (B) sed reads the data already present in buffer (C) sed reads from standard input (**D**) It is necessary to provide the filename i. Which one of the following statement is not true about the format-control letters for printf statement in awk program? (A) 'c' prints a number as an ASCII character **(B)** 'd' prints a decimal integer (C) 'h' prints an unsigned hexadecimal integer (D) 'o' prints an unsigned octal integer Answer any FIVE Questions out of EIGHT Questions. Each question carries 16 marks. a. What is a UNIX operating system? Explain the UNIX architecture in detail. 0.2 (8) b. What is a file? Explain various types of files in UNIX file system in detail. (8) 0.3 a. Describe the role of file attributes in UNIX file system. Explain the file attributes of *ls* –*l* command in brief. (8) b. Discuss the various modes of vi editor. List any five save and exit commands in ex mode of vi editor. (8) **Q.4** a. Write short notes on the following: (4×2) (i) The wild cards (ii) Escaping and Quoting b. Discuss the mechanism of process creation in UNIX in detail. (8) 0.5 a. How many time stamps does a UNIX file has? Discuss the role of find command with a suitable example. (8) b. Discuss the filters *tail*, *paste* and *sort* with suitable examples. (8) **Q.6** a. Explain the difference between wild card and a regular expression in detail. (8) b. What is *sed* command? Discuss the addressing mechanisms of *sed* command. (8) 0.7 a. What do you understand by a shell script? Discuss the two problems associated with Bash shell. (8) b. Write a shell script that accepts a filename and displays the last modification time if the file exists and a suitable message if it doesn't. (8) **Q.8** a. Explain the working of *awk* filter? How awk is different from sed? (8) b. Discuss FS variable, OFS variable, length function and index function of awk filter in brief. (8) **Q.9** a. Why the *perl* is known as the master manipulator? Discuss the working of split and join function of *perl*. (8) b. Write a program using *perl* to convert a decimal number to binary. (8)