ROLL NO. ____

Code: AC109/AT109

Subject: UNIX & SHELL PROGRAMMING

AMIETE - CS/IT (New Scheme)

Time: 3 Hours		Decembe	er - 2017	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. The answer sheet for the Q.1 will be collected by the invigilator after 45 minutes of the commencement of the examination. Out of the remaining EIGHT Questions answer any FIVE Questions. Each question carries 16 marks. Any required data not explicitly given, may be suitably assumed and stated. 							
Q.1 Choose the correct or the best alternative in the following: (2×10)							
a.	Unix is written in _ (A) Ada (C) Perl		(B) C (D) Pascal				
b.	Which command is (A) vi (C) cat		create files? (B) touch (D) cp				
c.	When we are execu (A) An Interpreter (C) A compiler		shell acts as(B) A kernel(D) An Operating				
d.		in its subdirectories?		rectory as well as all files			
e.	Which shell's wild-o (A) * (C) !	cards is used to matcl	h a single character (B) ? (D) #	r?			
f.	Which command is (A) sort (C) sh	used to sort the lines	of data in a file in (B) st (D) sort -r	reverse order?			
g.	(A) The owner has a(B) The owner has a(C) The owner has a	permission status of RWXR_XR indicates ner has all permissions, the group has only Read permissions. ner has only Read and Execute permissions. ner has all permissions, the group has only Read and Execute permissions. up has all permissions, the owner has only Read and Execute permissions.					
h.	Which command is (A) head -r (C) bof	used to display the e	nd of the file? (B) eof (D) tail				
i.		h transcribes the stan same in a file is	-	tandard output and also			

1

ROLL NO. _

Code	: A	C109/AT109 Subject: UNIX & SHELL PROGRAM	MMING			
	j.	Which command is used to extract a specific column from the file?(A) awk(B) cat(C) sed(D) cut				
Answer any FIVE Questions out of EIGHT Questions. Each question carries 16 marks.						
Q.2	a.	What is UNIX operating system? Explain the features of UNIX.	(8)			
	b.	What is the difference between internal and external commands? Explain with examples.	suitable (4)			
	c.	Explain the difference between cp and mv command with a suitable example.	(4)			
Q.3	a.	What do you understand by a file in UNIX operating system? Discuss the basic UNIX files in brief.	types of (8)			
	b.	What is vi editor? Explain the various operating modes of vi editor with a diagram.	suitable (8)			
Q.4	a.	Describe the working of wild-cards in shell programming. Explain the use *and card with suitable examples. What happens when you use echo with only the argument?				
	b.	Explain the mechanism of process creation. Also, list the important attributes in by a child process.	nherited (8)			
Q.5		Write short notes on the following:(4)(i) inode number(ii) Symbolic links(iii) tail(iv) sort	4×4)			
Q.6	a.	Give an overview on grep command with a suitable example. Also, list the optic by grep command.	ons used (8)			
	b	Write short notes on the following:(4)(i) Basic Regular Expression (BRE)(ii) sed	4×2)			
Q.7	a.	Write a script to determine whether given file exist or not, file name is support command line argument, also check for sufficient number of command line argument				
	b.	Devise a script that accepts two directory names, bar1 and bar2 and deletes those bar2 which are identical to their names in bar1.	files in (8)			
Q.8	a.	How we can split a line into fields using awk filter? Give a suitable example.	(8)			
	b.	List the built-in variables of awk filter with brief descriptions.	(8)			
Q.9	a.	What is perl? Write a program to convert the temperature from Centigrade to Falusing variables in perl.	hrenheit (8)			
	b.	What is chop function in perl? Explain with a suitable example.	(8)			