ROLL NO.	
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**Subject: UNIX SYSTEMS PROGRAMS** Code: AC71/AT71

## **AMIETE - CS/IT (Current Scheme)**

**JUNE 2015 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.
- The answer sheet for the O.1 will be collected by the invigilator after 45 Minutes of

• Ou qu	uestion carries 16 marks.	ination.  Questions, answer any FIVE Questions. Each given, may be suitably assumed and stated.	
Q.1	Choose the correct or the bo	est alternative in the following: $(2\times10)$	
	a. Which command is used to sort the lines of data in a file in reverse order?		
	(A) sort (C) st	( <b>B</b> ) sh ( <b>D</b> ) sort -r	
	b. Which command is used to	display the top of the file?	
	(A) cat (C) more	( <b>B</b> ) head ( <b>D</b> ) grep	
	c. Which command is used to	remove a directory?	
	( <b>A</b> ) rd ( <b>C</b> ) dldir	(B) rmdir (D) rdir	
	d. Which command is used to	o extract specific columns from the file?	
	( <b>A</b> ) cat ( <b>C</b> ) grep	(B) cut (D) paste	
	e. Which command sends the word count of the file infile to the newfile?		
	<ul><li>(A) wc infile &gt;newfile</li><li>(C) wc infile - newfile</li></ul>	<ul><li>(B) wc <infile>newfile</infile></li><li>(D) wc infile   newfile</li></ul>	
	f. Which of the following is not a communication command?		
	<ul><li>(A) write</li><li>(C) mail</li></ul>	(B) mesg (D) grep	

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	g.	. Which of the following keys is used to move the cursor to the end of the paragraph?				
		(A) } (C) /	(B) { (D) \$			
	h.	The command which transcribes the standard input to the standard output and also makes a copy of the same in a file is				
		(A) tee (C) sort	( <b>B</b> ) tr ( <b>D</b> ) grep			
	i.	Which command is used to remove a file?				
		(A) remove (C) mv	( <b>B</b> ) rm ( <b>D</b> ) del			
	j.	Which symbol is used to separate m line?	ore than one command in the same con	nmand		
		(A) \$ (C):	(B) # (D);			
	Answer any FIVE Questions out of EIGHT Questions.  Each question carries 16 marks.					
Q.2	a.	Define System Calls. Explain with	the help of Example System Calls.	(8)		
	b.	Explain with the help of example the following functions:  (i) open function  (ii) cat function  (iii) close function  (iv) lseek function  (v) read function		(8)		
Q.3	a.	How will you set permissions for a file?		(8)		
	b.	b. What are links and symbolic links in UNIX file system?		(8)		
Q.4	a.	What are Streams? Explain the Standard Input, Output and Error and Buffering in Standard IO Library. (8)		_		
	b.	Write short notes on the following (i) Binary I/O (ii) Formatted I/O	erms:	(8)		

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Q.5	a.	Explain Kill and Raise functions with the help of examples.	
	b.	Describe sigaction function with the help of example.	(8)
Q.6	a.	What does fork() do? What is the difference between fork() and vfork()?	(8)
	b.	Difference between wait and waitpid.	<b>(4)</b>
	c.	Explain the term Process Accounting.	<b>(4)</b>
Q.7	a.	What are Command line Arguments?	<b>(4)</b>
	b.	How to set Environment Variables?	<b>(4)</b>
	c.	Difference between getrlimit and setrlimit functions.	(8)
Q.8	a.	How to get and set the attributes of Terminal?	(8)
	b.	Explain in detail Client Server Model.	(8)
Q.9	a.	Define Pipes. What are popen and pclose functions in Interpcommunication?	rocess (8)
	b.	What are Message Queues and Semphores? Explain the terms with the h Example.	elp of <b>(8)</b>