ROLL NO

Code: AC72/AT72

AMIETE - CS/IT

Time: 3 Hours

DECEMBER 2013

10)

Student Bounty.com 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

 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 be	st alternative in the following:	(2×	
	a. What command is used to count the total number of lines, words, and characters contained in a file?			
	(A) countw	(B) wcount		
	(C) wc	(D) None of these		
	b. Find the Incorrect statemen	t about Memory symmetry?		
	(A) All processor share the	•		
	(B) All physical addresses			
	· · · · · · · · · · · · · · · · · · ·	e the same operating system.		
	(b) Data and applications	are not visible to all processors.		
	c. What hardware architecture	es are not supported by Ret Hat?		
	(A) SPARC	(B) IBM-compatible		
	(C) Alpha	(D) Macintosh		
	d. What file specifies the order in which to use specified name services?			
	(A) /etc/services	(B) /etc/nsorder		
	(C) /etc/nsswitch.conf	(D) /etc/hosts		
	e. How many primary partitions can exist on one drive?			
	(A) 16	(B) 4		
	(\mathbf{C}) 2	(\mathbf{D}) 1		

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	f. What command is used with vi e	ditor to replace text from cursor to	right		
	(A) S (C) R	(B) s(D) None of these	ERNA		
	g. What command do you use to create Linux file systems?				
	(A) fdisk (C) fsck	(B) mkfs(D) None of these	1		
	h. Which of the following is not a communication command?				
	(A) grep(C) mesg	(B) mail(D) write			
	i. What command is used to display the characteristics of a process?				
	(A) au (C) du	(B) ps (D) pid			
	j. What protocol allow a user to remail reader?	*			
	(A) POP3 (C) Both (A) & (B)	(B) FTP(D) None of these			
Answer any FIVE Questions out of EIGHT Questions. Each question carries 16 marks.					
Q.2	a. Explain the main characteristics	s of Linux.	(12)		
	b. What are additional configuration facilities?		(4)		
Q.3	a. Draw a diagram showing famil	y relationships of processes.	(8)		
	b. What are hardware interrupts? How they are used?		(8)		
Q.4	a. Explain how paging is impleme	ented in Linux.	(12)		
	b. Explain the four LRU lists.		(4)		
Q.5	a. What are the types of IPC supp	orted by Linux?	(10)		
	b. How is communication via files is performed?		(6)		
Q.6	a. Draw a diagram for the structure of a UNIX inode.		(8)		

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SHIIDENIBOUNIS.COM Subject: LINUX INTERNA b. Explain the two algorithms to limit the fragmentation of files. **Q.7** a. What is the concept of Polling and Interrupts? b. What are the device drivers? What role does Operating System play for the same? **Q.8** a. Explain the layer structure of a network. (10)b. Explain flags of the network devices. **(6) Q.9** a. What are modules? What can be implemented in modules? **(8)** b. What is the need for coding Atomic Operations in the header file asm /

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atomic.h?