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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY FIFTH SEMESTER B.TECH DEGREE EXAMINATION, DECEMBER 2017

Course Code: IT363

Course Name: UNIX SHELL PROGRAMMING(IT)

Max. Marks: 100

Duration: 3 Hours

PART A

		ΓΑΚΙΑ	
		Answer any two full questions, each carries 15 marks.	Marks
1	a)	Explain the architecture of Unix system.	(6)
	b)	Explain Unix file and directory permissions. What is a sticky bit?	(6)
	c)	Describe the usage of the utilities.	(3)
		i) bc ii) calc iii) cat	
2	a)	How does <i>ln</i> and <i>rm</i> commands affect inode and directory?	(3)
	b)	Explain Unix file system structure. What is the maximum file size?	(6)
	c)	Explain methods for manipulating the timestamps in files/directory.	(6)
3	a)	What are the differences between hard and soft links?	(3)
	b)	How to do the following activities using vi editor.	
		1. Text replacement	(6)
		2. Delete text	
	(c)	What is inode? How does it affect when you perform the following activities?	
		1. Copy file KTUweb com	(6)
		2. Delete file	
		PART B	
		Answer any two full questions, each carries 15 marks.	
4	a)	How do we find process hierarchy in a system?	(4)
	b)	Explain the application of wild card characters with example.	(5)
	c)	1.How do we control process priority?	(6)
		2.Explain killing processes with signals	
5	a)	Explain command substitution	(6)
	b)	Explain single and double quoting.	(6)
	c)	Write the output of cd *	(3)
6	a)	Explain job scheduling with example.	(6)
	b)	How do we move jobs to background and foreground?	(3)
	c)	Give the application of the following utilities	
		1 finger	
		2. rsh	(6)
		3.telnet.	



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PART C

Answer any two full questions, each carries 20 marks.

7	a)	Details of linux users are available in /etc/passwd. Format of this file is	(8)	
		user_name:x:uid:gid: : : :. Write a shell script to list the members of a given gid.		
	b)	Explain switches available with grep command.	(4)	
	c)	Explain awk control flow construct with example.	(4)	
	d)	Explain context addressing in sed.	(4)	
8	a)	Explain text editing with sed.	(4)	
	b)	What is the application of	(4)	
		1.eval.		
		2.exec		
	c)	How do we do line addressing using sed?	(4)	
	d)	Write a shell script to receive student name, register number, marks of four		
		subjects of n students. Decide appropriate grade and prepare mark card for each	(8)	
		student. Store the mark card in files with the names of register number.		
9	a)	Explain filtering with awk.	(6)	
	b)	What is conditional parameter substitution.	(6)	
	c)	Explain arrays in awk programming. Write an awk script to print squares of	(8)	
		numbers from 1 to 100.		



