B.E. (Computer Engineering) Eighth Semester (C.B.S.) UNIX & Shell Programming

	Pages : ne : Th	2 tree Hours * 0 8 0 5 *	NRT/KS/19/3710 Max. Marks: 80	
	Note	es: 1. All questions carry marks as indicated. 2. Solve Question 1 OR Questions No. 2. 3. Solve Question 3 OR Questions No. 4. 4. Solve Question 5 OR Questions No. 6. 5. Solve Question 7 OR Questions No. 8. 6. Solve Question 9 OR Questions No. 10. 7. Solve Question 11 OR Questions No. 12.		
1.	a)	Explain the Unix operating system from user perspective.		7
	b)	Write a shell script to check whether the user eligible for note or not ignored	e the month.	7
		OR		
2.	a)	Write a shell script to find whether a given string is palindrome or not.		6
	b)	Explain the following commands with suitable example.		8
		i) WC		
		ii) Who		
		iii) IS		
		iv) Write		
3.		Explain the architecture of Unix 0.5. Also draw block diagram of system keeplain every block.	ternel &	13
		OR		
4.	a)	Write short note on kernel data structure.		7
	b)	Explain the Unix file system in details.		6
5.	a)	Which type of fields includes in super block & disk inode.		7
	b)	Explain the buffer allocation algorithm.		6
		OR		
6.	a)	Which type of fields includes in disk inode explain in details.		6
	b)	Describe the structure of a regular file in Unix 0.5.		7

7.		Write short on any three.	13
		i) Process creation.	
		ii) Signal.	
		iii) User ID of a process.	
		iv) Process termination.	
		OR	
8.	a)	Explain Read and write system calls.	6
	b)	Explain mounting and Unmounting of file system with example.	7
9.	a)	Explain shut down command with various option.	4
	b)	Explain system boot and Init process.	4
	c)	Write down different signal used in UNIX system.	6
		OR	
10.		Draw and explain complete process of state transition diagram.	14
11.		Write short note on	13
		i) Sockets.	
		ii) Inter process communication.	
		iii) Disk Drivers.	
		OR	
12.	a)	Write short note on	6
		i) System boot	
		ii) Network communication.	
	b)	Explain trouble shooting network problem.	7
