YENISI - IV : WINTER - 2016

Subject : Unix and Linux Internals

Day : Thursday Date : 08/12/2016			
N.B.:	1) 2) 3)	Answer any FIVE questions from Section-I and any TWO questions from Section-II. Both the sections should be written in the SAME answer book. Figures to the RIGHT indicate full marks.	
		SECTION-I	
Q.1		Describe briefly the UNIX operating system architecture. Explain the role played by kernel and shell.	(10)
Q.2		How files are represented in UNIX operating system?	(10)
Q.3		Differentiate between the following: i) System calls Vs C-library functions ii) 'Fork' Vs 'Exec' system call	(10)
Q.4		What is a process? Explain context of a process and when it is saved in memory.	(10)
Q.5		What is the purpose of I/O sub system driver interfaces? Explain Disc Drivers. ((10)
Q.6		Explain the role of swapping as a memory management policy.	(10)
Q.7		Write short notes on Any TWO of the following:	(10)
	a)b)c)	Kernel Data Structure Reserved ports System boot process	
		SECTION-II	
Q.8	a)	Write a shell script to print first N prime numbers.	(08)
	b)	Write a shell script to convert the content of a file to uppercase.	(07)
Q.9		Write a C program to implement socket and demonstrate the concept of Inter (Process Communication?	(15)
Q.10		Explain different commands used for process creation, termination and process (control.	(15)