Question 1

1.1	How do you switch between virtual consoles?	(3)
	•	~ ~ ~

- Hold down CTRL •
- and ALT keys
- and press F1 through F7 to switch between consoles. ٠
- 1.2 (3)Give three reasons why you may opt to use a shell other than *bash*.
 - You are used to using shells from other environments. •
 - You want to run scripts created for a particular shell. ٠
 - You prefer the features of a shell over those of another shell. •
- 1.3 What does Ctrl-D, Ctrl-A, Ctrl-F and Ctrl-T do in terms of command line editing? (6)
 - Ctrl-D delete current character
 - Ctrl-A go to beginning of current line
 - Ctrl-F go forward one character •
 - Ctrl-T transpose this character with the previous one •

1.4 Give the command you would use to:

- a) create a directory. (1)b) get the name of the current working directory. (1)
- (1)
- list the contents of a directory. c)
 - a) mkdir b) pwd c) ls

List five redirection characters and briefly explain what each one does. 1.5 (10)

< directs the content of a file to a command as input •

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•	>	directs the standard output of a command to a file	
•	2>	directs the standard error to a file	
•	&>	directs the standard error and output to a file	
•	>>	directs the output of a command to a file appending it to the end	
1.6	Give t	he chmod command that will result in rw-rrpermissions for a file	
	called	design.txt.	(7)
	_		
		d 644 design.txt	
	I WO I	narks each for 6,4 and 4 plus one for using the filename correctly.	[32]
			[52]
Quest	tion 2		
2.1		a command that will ensure that all files with <i>-rwxr-xr-x</i> permissions in the /bin	
	direct	cory are found and listed.	(7)
	find /	bin –perm 755 –ls	
2.2	Which	n two signals cannot be blocked by a process?	(4)
	SIGKI	LL and SIGSTOP	

2.3 Copy the following table to your book and complete the table regarding shell script operators.

(10)

Operator	What this operator tests is:
-a file	
-e file	
-n string	
-r file	
-s file	
-w file	
file1 –nt file2	
-x file	
-h file	
-k file	

Operator	What this operator tests is:
-a file	whether the file exists
-e file	whether the file exists
-n string	whether the string is greater than 0 bits
-r file	whether the file is readable by you
-s file	whether the file exists and is larger than 0 bytes
-w file	whether the file is writable by you
file1 –nt file2	whether the first file is newer than the second file
-x file	whether the file is executable by you
-h file	whether the file is a symbolic link
-k file	whether the file has the sticky bit set

2.4 Briefly describe what can be found in the following directories: (10)

- a) /etc/skel
- b) /etc/postfix
- c) /etc/xinetd.d
- d) /etc/ppp
- e) /etc/cups

a)	/etc/skel	:files that are copied to a user's home directory when a user is	
		added.	
b)	/etc/postfix	:configuration files for the postfix mail agent	
c)	/etc/xinetd.d	:files that define on demand network services that the daemon	
		monitors	

- d) /etc/ppp :configuration files to set up a point to point protocol
- e) /etc/cups :files used to configure the printing service
- 2.5 What steps would you put in the installation procedure to install Linux in the Enterprise?
- (5)

- Launch installation medium
- Start anaconda kernel

- Add kickstart and other boot options
- Find software packages
- Modify the installation with kickstart scripts

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Question 3

- 3.1 Give the command that will:
 a) download the latest version of firefox to your current directory. (2)
 b) remove the package *emacs* using RPM. (2)
 - c) determine what dependencies *emacs* has using yum. (2)

a) yumdownloader firefox

- b) rpm –e emacs
- c) yum deplist emacs

3.2 Briefly state the purpose of the following *useradd* options.

a)	-C	(2)
b)	-d	(2)
c)	-D	(4)
d)	-m	(4)
e)	-M	(2)
f)	-S	(2)
a)	-C	description of the new account
b)	-d	the home directory for the new account
c)	-D	do not create new account, use information supplied as
		default
		for new accounts
d)	-m	automatically create home directory and copy files from
		skeleton directory
e)	-M	do not create new home directory regardless of default
		behaviour

f) -s	specify the shell to use
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- 3.3 An Access Control List (ACL) is an alternative way for users to share files without having root user setting permissions. How would you:
 - a) add an ACL to a file? (1)
 - b) determine what ACL's exist for a file? (1)
 - a) setfacl
 - b) getfacl
- Give the command you would use to mount a disk *sdb2* using an *ext3* file system. The mount point *mnt/olddisk* already exists and it must be mounted as read only. (8)

mount -t ext3 -o ro /dev/sdb1 /mnt/olddisk

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