NAME: MONESMA FORMAN ALS CON NO. 8669 CLASS: SELT
TOTAL THE TOTAL TO
OS ASSIGNMENT NO 1
Q2] What are the different blocks that constitute Union file
Justam ?
System?
Dons Blocks in Union file systems are:
u) a boot block located in first few sectors of file
system Contain boot initial bootstrap program used
to level 0s
1) A super block describe state of file system, total
size of partition, block size, pointers to list of
free blocks one inedes (index nodes). There is one
3) A linear array of inodes Cinden modes. There is one
to one mapping of files to inodes and vice versa.
(4) Data block contains actual content of files
BOOT SUPER INODES 111
BLOCK BLOCK BLOCKS

8.2] Englain the procedure of mounting and unmounting a file system in Unix

phrs: w MOUNTING: The mount command is used to mount file system in linux.
mount [-1hv]

mount [-frsvw] [-t vfstype] [-0 options] device / directary.

(2) UNMOUNTINOT: The warmount command is used to unmount a file system in linux:

unmount [-hv]

unmount [-dflnrv] { directory / device }

0,3] Emplain the role of the default device files and directories in Unix 05.

Ans Directories and default files with their soles, as follows:

-/: Root filesystem true

-/bin: stands for "binories" contain fundamental utilities like ls or up

-/boot: contain all fires required for boot process.

-) der : contain information of devices and psuedo-devices.

-lete: contain system wide configuration files and system databases

- / home: contain all home directory for users

-/ Wb: contain system libraries and critical files like kernel modules

-/media: Default mount point for removable devices.

-/ mont: contains file system mount points.

-/proc : processes or files

-/ trop: A place for temporary files beened on starting -/ use holds executables, libraries and shared resources			
which are not system	em ou ucu		
84] Emplain the difference d	bet ween:		
⇒ Hand and symbolic links			
HARD LINKS	SYMPOLIC / SOFT LINKS		
o) Hard link is the exact	Soft link is an alias to		
tentica of the original file	The state of the s		
it is pointing to	the shortest feature in the		
- Ac - A - Awaren	Windows . Os .		
2) It contains the actual	It contains the location of		
contents of the fire	the original file but not		
Convers	the contents		
3) Hard links share the same			
Inode value pointing to	Inode values pointing to		
the same file Cocation	the original value		
Hinks cannot be established			
outside the filesystem	across filesystem		
changes in the hand	The link become inaccessible		
linked file seflect in the	when the original file is		
office siles	semoved.		
other files thard links can only link			
to a file, not directory	. to a file or a directory.		
J J			

> who wand finger commands

WHO COMMANOS	FINGER COMMANDS
of logged in user	Finger gives detailed information of user
) who cam't used on metwork	Tinger can be used over network.
) Eg: who	Eg finger makeena

(9.5] what is the use to be command? Explain a few functions that are associated with it

ons: bc:

- be is a language that supports arbitary-precision numbers.
- It delivers accurate sesuits irrespective of size of number.
- It has syntan similar to 'c'.
- be [-hlwsqw][long-opt][file(with code)]

Functions in be:

- imput () read() function will head number from standard
- (a) scale (oupression) Returns number of digits after decimal point in expression
- (3) sget (expression) Calculates square soot of expression
- (4) return (empression) Returns value of expression from function
- (5) point () Prints entered values on terminal.

8.6] Emplain the term globbing with oxample drs: Globbing:
dis: Globbing:
me patterns containing strings like '?' * are wild card pattern.
- File globbing is operation that recognizes these patherns and does job of file path expansion
juderns and does job of file path expansion
Example of use of wildland characters:
Example of use of wildcard characters: w astrick (*): It is used to match any number of characters:
(2) question mark (?) It is used to match exactly
one character.
(3) square brackets: It is used to match characters
imstide []
(4) Exclamation mark (!): It is used to exclude character
from list that is specified in []
given and as squared in
QT] command to find square soot of number 17 (result
should be displayed up to 5 places of decimals)
Ans command to display square soot of 17
sgut 17.

- 18] In the long listing commands is li, if you find two or more files with same inode number, what does that mean?
- Ans while in Command Is-li, if we found 2 files have same imode number, if implies that both files exist of different partitions
- Q.9] Command to display the node name, i.e. the name of your machine

 Ans: Command to display node name:

 uname nodename
- Q10] Is there a way to copy contents of the files a.txt

 and btxt to file ctxt without deleting the earlier

 contents of file ctxt? if yes, mention the command

 Ans To append data from a txt and b.txt to c.txt

 cat a txt >> c txt

 cab b.txt >> c txt
- and name of 0s on the machine

 Ans to display system configuration in linux, the command would be. Ishw

Q12] Explain the following commands
11) Sort - It prints lines of its input or concention
of all files listed inch argument in screed order
(2) We - Reads files and counts newline, word and byte
(3) Head - It is used to display beginning of a text
file or pined data
14) Tail - It is used to display tail end of the tent
file or piped data
(5) Diff - It compares contents of 2 files and quints
the outternes in a fue
(6) uniq - uniq outputs text with identical lines
mer and together
(7) Split - It is used to file in short files
(3) Split + It is used to file in short files (8) Cmp - It compares & files and writes result in
stdout
19) Comm - It is used to compare 2 files for common
and distinct lines
Q13] Find the command to assign read write and
encute permission to the owner; read and write
to group and read only for others
Ans chmod - 764 to assign given permission to file
Ans chmod-164 to wagn y

(814] Find the commond, to set permissions for directories to be created in future as read, write and execute for owner, read and write for groups and read only for others.

Ans chinod g = foldername - 764

1950

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- A.15] Find the commond, be change the ownership of the file file 1 txt to Charles
 Ans: chrown Charles file 1.txt
- Q16] Find the command, to sort file a-tat in heverse order and store it in btxt

 Ans: cat tail n a.txt >> btxt
- 8.17] Find the command, to create a group by name seit Ans: groupadd seit
- (8.18] Find the command, to display all displicate lines in file ase. txt

Ans siniq oubc. txt

6.19] can you sort the file atxt on the second and third field skipping the first field if yes then give example Ans: Nes.

pieues	that are 10 KB each, if yes, give example split - b 10 K a but
u) Zip	the commonds This command is used to compress files and to reduce file state This command list, text and entract
(4) Uncompo (5) Pack - (6) Unpack	compressed files from zip archive - Compress reduces file size using Homps - Ziv algorithm ress - uncompress empounds compressed data - Compresses file with huffman coding - Unpack empounds file compressed by pack Used to define and determine values of system environment variables
Ans letc/ho	is the difference between file /etc/hosts allow tc/host deny? Its dony file will deny all clients to all doesnows on server Its allow allows linear machine to communicate

10cal shell variable be made a global variable?

Ans CREATING VARIABLE:

Shell variable created as: Nar-name = var-value

Always starting with '_' ar letter

All letters in name should be uppercase

special characters like '+', '-', '* are mot allowed

CREATING GILOBAL VARIABLE

& esepart Nar_name

is used to convert local variable to global so that i't can be used through any other shell on machine

\$24] In long listing is - it, if you find a file with mode field set to 1, what does that mean?

Ans till with mode field 1 implies it is executable only. No head or write permissions are allowed.

1925] How will you know whether a particular file in/der directory represents a character device on block dovice

Ams: grep character file.

8.26] Find output, \$ export project name \$ PS1 = "Unin prompt" \$ which cat \$ echo \$ HOME

dns: \$ Hash - f main sh / usr / bin / cat

/ nome /cg / noot /9284322