



- iii) For some file the access permissions are modified to 764. Which of the following interpretations is valid ?
- a) everyone can read, group can execute only and the owner can read and write.
 - b) everyone can read and write, but owner alone can execute
 - c) everyone can read, group including owner can write, owner alone can execute
 - d) none of these.
- iv) Which of the following information is contained in inode structure ?
- a) The file size
 - b) The name of the owner of the file
 - c) The access permissions for the file
 - d) None of these.
- v) How could you check two strings are equal ?
- a) test \$a - eq \$b
 - b) test \$s - equal \$b
 - c) test \$a = \$b
 - d) test \$a = = \$b.
- vi) sort -n emp
- a) sort by primary key
 - b) numeric sorting
 - c) sort by secondary key
 - d) none of these.



- vii) echo '\$SHELL' will print
- a) SHELL
 - b) \$SHELL
 - c) value of SHELL variable
 - d) none of these.
- viii) \$? represents
- a) no. of arguments specified in command line
 - b) name of executed command
 - c) exit status of last command
 - d) none of these.
- ix) The available disk space can be determined under UNIX using the command
- a) dir
 - b) df
 - c) du
 - d) file.
- x) The command cp [!0-9] ?? Prog will
- a) copy all files started with not a number to Prog directory
 - b) copy all files whose filename is three characters in length started with not a number to Prog directory
 - c) both of these
 - d) none of these.



GROUP – B

(Short Answer Type Questions)

Answer any *three* of the following. $3 \times 5 = 15$

2. Write short notes on the following Unix commands with different options : $2 + 2 + 1$
 - a) Date
 - b) who
 - c) passwd.
3. Write a shell script that will accept a pattern and a filename from the user and display all lines containing the pattern within the file.
4. What is *i*-node ? What does it contain ? $1 + 4$
5. When is a process forked ? What are the attributes inherited from the parent process by its child process ? What is the command to know the PID of the current shell ? $1 + 3 + 1$
6.
 - a) What is meant by command line arguments in shell programming ?
 - b) Explain \$#, \$?, \$* special parameters in shell. $2 + 3$

GROUP – C

(Long Answer Type Questions)

Answer any *three* of the following. $3 \times 15 = 45$

7.
 - a) Briefly explain the features of UNIX Operating System.
 - b) What are absolute and relative paths ? Explain with example.
 - c) What are the security levels available in UNIX ?
 - d) What is filter ? Is it possible to append contents using cat command ? How to display the 5th to 10th line of a file *f1* ? How to open the last modified file in vi editor ?

$4 + 4 + 3 + 1 + 1 + 1 + 1$



8. a) Name five administrative functions that cannot be performed by a general user.
- b) What are the commands used by system administrator to create, modify and delete user accounts ? Give example.
- c) What is the difference between su and su-aloke ?
- d) What are the activities performed by shutdown command ?
- e) What are block and character devices ?
- f) What are the different run levels in UNIX ?

2 + 2 + 2 + 4 + 2 + 3

9. a) Describe internal and external commands in Unix with example.
- b) Explain with examples the flexibilities of Unix command usage.
- c) Write short notes on the following :
- i) man
- ii) uname
- iii) script.

4 + 4 + (3 + 2 + 2)

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10. a) Name five administrative functions that cannot be performed by a non-privileged user.

b) Why is the su command terminated with exit ? What is the difference between su and su-vivek ?

c) What are block and character devices ?

d) What are the different run levels in Unix ?

3 + 5 + 4 + 3

11. a) What are the differences between scheduling processes using batch command and using at command ?

b) What do you mean by a daemon ?

c) How will you kill a daemon ?

d) Which process cannot be killed using the kill command ?

e) What is the function of exec system call ? What is the difference between a process run & and run with nohup ?



f) Interpret the following crontab entries and explain if they will work :

i) `***** dial.sh`

ii) `00-60 22-24 30 2* find.sh`

g) Frame a crontab entry to execute the connect.sh script every 30 minutes on every Monday, Wednesday and Friday between times 8 a.m. and 6 p.m.

$2 + 1 + 1 + 1 + (2 + 2) + 3 + 3$
