

22522

24225

3 Hours / 70 Marks

Seat No.

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- Instructions :**
- (1) All Questions are *compulsory*.
 - (2) Illustrate your answers with neat sketches wherever necessary.
 - (3) Figures to the right indicate full marks.
 - (4) Assume suitable data, if necessary.

Marks

1. Attempt any FIVE of the following :

10

- (a) Define Shell.
- (b) State the use of echo and bc commands.
- (c) State the use of vi editor.
- (d) State the use of tar command.
- (e) Define : Tree, Pipe
- (f) Define Process.
- (g) Write the use of tput and Who command.

2. Attempt any THREE of the following :

12

- (a) Describe the need of backup.
- (b) Describe netstat and tcp dump commands with example.
- (c) Describe passwd, write, wall and mail commands with example.
- (d) Write in detail about grep and fgrep.



- 3. Attempt any THREE of the following : 12**
- (a) Describe startup and shutdown operation.
 - (b) Write a shell script to find greatest number.
 - (c) Describe any two linux shell types in detail.
 - (d) State and explain any two internal and external locating linux commands.
- 4. Attempt any THREE of the following : 12**
- (a) Describe file system in detail.
 - (b) Describe any four navigating commands.
 - (c) Write a shell script to introduce if-else statement.
 - (d) Describe the use of crontab program in linux.
- 5. Attempt any TWO of the following : 12**
- (a) Compare C shell, Korn shell and Bourne shell (Two points each).
 - (b) Explain state transition diagram in detail.
 - (c) State the use of following commands :
 - (i) `mk dir`
 - (ii) `rmdir`
 - (iii) `cd`
 - (iv) `pwd`
 - (v) `cal`
 - (vi) `uname`with example.
- 6. Attempt any TWO of the following : 12**
- (a) Write a shell script to count number of lines present in a text file.
 - (b) Describe the working of RAID 0 and RAID 1 with suitable diagram.
 - (c) Explain firewall & internet security in detail.
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