

22522

23242

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) Enlist any 2 LINUX shells along with its features.
- (b) Enlist any two internal and two external LINUX commands.
- (c) Describe pipe operator with example.
- (d) Write any four points to justify need of backup.
- (e) Enlist any four TCP/IP configuration files.
- (f) State any four features of LINUX file systems.
- (g) State syntax of 'while' command in shell program and describe it.

2. Attempt any THREE of the following : 12

- (a) Describe working of RAID0 and RAID1 with diagram.
- (b) Describe commands stepwise with syntax for creating, editing and saving a file in Vi editor.
- (c) Draw diagram for architecture of LINUX and describe its layers.
- (d) Describe use of following commands with example :

- (i) wall
- (ii) who



3. Attempt any THREE of the following : 12

- (a) Describe role of administrator.
- (b) Describe use of following commands with example – (i) ifconfig (ii) ping.
- (c) With suitable example differentiate between ‘grep’ and ‘fgrep’ commands.
- (d) Write appropriate commands for following tasks :
 - (i) To create file (ii) To copy file
 - (iii) To rename file (iv) To delete file

4. Attempt any THREE of the following : 12

- (a) Demonstrate process state transition along with diagram.
- (b) Illustrate use of ‘chmod’ command along with example.
- (c) Write a shell script to check if numeric values of two variables are same or not. Accordingly display message.
- (d) Write stepwise procedure to create a new user as ‘user1’ and create a group as ‘group1, then make user1 as member of group1. (Write it along with syntax of required commands)
- (e) Describe NIS with any two topologies.

5. Attempt any TWO of the following : 12

- (a) Write a shell script to accept a number from user and calculate factorial of that number.
- (b) Describe any six Operating System Services.

- (c) Give commands for performing following tasks :
- (i) To see help (manual reference) of 'ls' command.
 - (ii) To change password of user1.
 - (iii) To create directory as 'DIR1'.
 - (iv) Move file 'abc' to 'DIR1' directory.
 - (v) Display type of file 'abc'.
 - (vi) Display default permissions of file 'abc'.

6. Attempt any TWO of the following :

12

- (a) Describe following along with command (syntax) and example :
- (i) Wildcard
 - (ii) Input Redirection
 - (iii) Output Redirection
- (b) Describe any four functionality of superuser. Also describe how to acquire superuser status along with commands.
- (c) Write down stepwise procedure to configure LINUX DHCP server and client along with syntax of commands.
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