

22522

11920

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.
 - (5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.
 - (6) Preferably write the answer in sequential order.

Marks

- 1. Attempt any FIVE of the following :** **10**
 - (a) State any two commands for managing disk space and also state their use.
 - (b) List any four features of open source operating system.
 - (c) Describe the use of wild card with example.
 - (d) State modes of Vi editor.
 - (e) Define internal and external commands.
 - (f) List roll of administrator.
 - (g) Write any two advantages and disadvantages of NIS. (Network Information Service)

- 2. Attempt any THREE of the following :** **12**
 - (a) With suitable examples, describe Cpio and tar commands.
 - (b) Describe expr statement with example.
 - (c) With suitable examples differentiate between grep and fgrep commands.
 - (d) Describe Hierarchical file system.

- 3. Attempt any THREE of the following :** **12**
- (a) Write the output for the following commands :
 - (i) `ls - a`
 - (ii) `date "+ % D"`
 - (b) Explain the start up and shut down operations.
 - (c) Describe use of following commands with example :
 - (i) `route`
 - (ii) `net stat`
 - (d) Describe Cat and rm file handling commands with example.
- 4. Attempt any THREE of the following :** **12**
- (a) Compare between C shell and Korn shell.
 - (b) Describe working of diff and Cmp file handling commands with example.
 - (c) Write a shell script to find factorial of a number.
 - (d) Describe working of RAID 0 and RAID 1 with suitable example.
 - (e) Write procedure to configure TCP/IP settings in a network.
- 5. Attempt any TWO of the following :** **12**
- (a) With suitable diagram, describe state transition diagram.
 - (b) Describe Ch mod commands with example.
 - (c) Write a shell script to accept a number from user check whether number is even or odd.
- 6. Attempt any TWO of the following :** **12**
- (a) Describe the procedure of designing a firewall.
 - (b) Write a procedure to perform the operation for managing the users / groups.
 - (c) Write a shell script to accept length & breadth of rectangle from user. Calculate and display area, perimeter, of entered values using choice entered by user. (Hint : Use case statement)
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