

22522

22232

3 Hours / 70 Marks

Seat No.

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- Instructions :**
- (1) All Questions are *compulsory*.
  - (2) Answer each Section on same / separate answer sheet.
  - (3) Answer each next main Question on a new page.
  - (4) Illustrate your answers with neat sketches wherever necessary.
  - (5) Assume suitable data, if necessary.
  - (6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

**Marks**

**1. Attempt any FIVE of the following :**

**10**

- (a) Define – (i) Shell (ii) Process
- (b) List general purpose utility in Linux.
- (c) Enlist the modes of Vi Editor.
- (d) Explain the df command for managing disk space.
- (e) Define – (i) NIS (ii) NFS
- (f) Enlist various Linux shells.
- (g) Define : Tree, Pipe

**2. Attempt any THREE of the following :**

**12**

- (a) Explain the term maintaining security in details.
- (b) Explain (i) Quoting (ii) Redirection
- (c) Draw and explain process state diagram in operating system.
- (d) Explain grep command with options having example.



- 3. Attempt any THREE of the following : 12**
- (a) Explain the cpio command in detail.
  - (b) Describe TCP/IP network address in detail.
  - (c) Write examples of following :
    - (i) append content in file
    - (ii) renaming file
  - (d) Explain chmod command with example.
- 4. Attempt any THREE of the following : 12**
- (a) How to login to the system ? Explain with example.
  - (b) Explain wall command with example.
  - (c) Write a shell script to find greatest among three numbers.
  - (d) Write a command to change the login name and user ID.
  - (e) Explain the term dynamic and fixed addresses related to DHCP.
- 5. Attempt any TWO of the following : 12**
- (a) Write a shell script code to :
    - (1) find reverse of 3 digit number
    - (2) check number is palindrome or not.
  - (b) Explain the services provided by Operating System.
  - (c) Write examples of following commands :
    - (1) uname
    - (2) script
    - (3) mail
    - (4) cp
    - (5) mkdir
    - (6) passwd
- 6. Attempt any TWO of the following : 12**
- (a)
    - (i) Write a program to check whether the data is in command line or not.
    - (ii) Write a program to demonstrate the use of \$# variable.
  - (b) List commands used for task scheduling ? Explain with example.
  - (c) Write a procedure to configure Ubuntu DHCP server.
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