

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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