

(2 ½ Hours)

[Total Marks: 75]

- N.B. 1) All questions are compulsory.
2) Figures to the right indicate marks.
3) Illustrations, in-depth answers and diagrams will be appreciated.
4) Mixing of sub-questions is not allowed.

Q. 1 Attempt All

(a) Multiple Choice Questions (Unit - I, II and III)

(10M)

- 1) What is "1001" field represents in the following record of "/etc/passwd" file?
pc2: x : 502: 1001: pc2pc2: /home/pc2:/bin/bash
i) User ID ii) Group ID
ii) Inode Number iv) Process ID

2) _____ image file of GRUB is used to access several file systems and to locate Stage 2 image file.
i) Stage 3.5 ii) Stage 3
ii) Stage 1.5 iv) Stage 2.5

3) _____ allows a program to be run with permissions from the program's owner, not the user who is running it.
i) SetUID bit ii) SetGID bit
ii) Pseudo iv) root

4) Which of the following command is correct, to assign following permissions to file f1? Permission: r_w_x_x
i) chmod 641 f1 ii) chmod 431 f1
iii) chmod 624 f1 iv) chmod 461 f1

5) _____ provides a way to map or translate an unfriendly numerical IP address into a people friendly format.
i) Dynamic Host Configuration Protocol (DHCP)
ii) Netstat
iii) Domain Name System (DNS) iv) ping

6) MoinMoin is a _____.
i) Programming language ii) wiki engine
iii) operating system iv) server

7) In IMAP, mail access is working in which three distinct modes?
i) online, offline, disconnected ii) offline, disconnected, bidirectional
iii) online, offline, connected iv) online, connected, bidirectional

8) _____ is the process of having serverA NFS-mounting serverB's disks and serverB NFS-mounting serverA's disks.
i) Cross-mounting ii) Cross-platform
iii) Cross-process iv) Cross-disks

Q. 4 Attempt the following (Any THREE)

(a) Describe the following points regarding NFS server:

- i) The "/etc/exports" Configuration File.
- ii) exports command

(b) Stepwise explain configuration of master NIS server.

(c) Explain the "declaration" types in DHCP configuration file.

(d) Discuss smbclient program.

(e) Define MySQL. Differentiate between MyISAM and InnoDB.

(f) Write different Distributed File System (DFS) implementations.

(15)

Q. 5 Attempt the following (Any FIVE)

(a) Write the targets used in "Makefile" which is required in kernel.

(b) Discuss ifconfig command.

(c) Describe Kerberos.

(d) Explain apache in regards with the following points:

- i) Definition of apache
- ii) Advantages of apache
- iii) Installation of apache
- iv) Starting and stopping apache
- v) Testing apache service on browser

(e) What are the different OpenLDAP utilities available?

(f) Write a short note on Jabber.

(g) What is the use of chroot. Explain how does chroot work?

(h) Write any 5 options found in sshd configuration file.

(15)