

- N.B.** (1) All questions are compulsory.
(2) **Make suitable assumptions** wherever necessary and state the assumptions made.
(3) **Answers** to the same questions must be written together.
(4) **Numbers** to the right indicate marks.
(5) Draw **neat labeled diagrams** wherever necessary.
(6) Use of **Non-programmable** calculators is allowed.
1. Attempt the following (any **TWO**) [10]
(a) Enumerate the duties of Linux System Administrator.
(b) Explain GRUB.conf file in details.
(c) State the advantages of using hierarchical method for system organization.
(d) What is RAID? Write and explain the different levels of RAID.
2. Attempt the following (any **TWO**) [10]
(a) What are the files required to be changed when we setup a new system or move the system from one location to another?
(b) What is DHCP? Explain its configuration file.
(c) What are the advantages and disadvantages of NFS? Explain.
(d) Explain the concept of supernetting with suitable example.
3. Attempt the following (any **TWO**) [10]
(a) What are the different sections on smb.conf file? Explain.
(b) What are the tasks to be performed to setup Timeserver? Explain the steps to configure NTP Server and NTP client.
(c) How are reference clocks configured? Explain.
(d) On a Linux machine a directory named /home/newusr/TYIT is to be accessed from windows machine. Write the configuration to carry out this task.
4. Attempt the following (any **TWO**) [10]
(a) Explain use of ssh, scp, sftp services.
(b) What are the types of domain servers? Explain in brief.
(c) Explain the two programs used to check the DNS configuration.
(d) What are zone statement? Explain the different values for the zone statement.
5. Attempt the following (any **TWO**) [10]
(a) Why aliases are required while configuring send mail? What are the changes that are required for creating an alias?
(b) Explain SMTP, POP3 and IMAP4 protocols.
(c) Write the purpose of the following parameters of vsftpd.conf file
(i) anonymous_enable (ii) write_enable
(iii) chown_username (iv) ftpd_banner
(v) dirmessage_enable
(d) Explain how to disable anonymous FTP.
6. Attempt the following (any **TWO**) [10]
(a) Explain the working of Apache web server.
(b) Explain the <Files><Files> and <IfModule></IfModule> blocks.
(c) Explain the shadow password system.
(d) Which command is used to change the expiration policy for a user's password? Explain with example.

7. Attempt the following (any **THREE**)

[15]

- (a) Write a note on GNU and Linux Distribution.
- (b) How are NFSv4 client and server configured? Explain
- (c) Distinguish between NFS and SAMBA Server.
- (d) Compare *inted* and *xinted* services. Explain standalone services of *xinetd*.
- (e) Explain the following : Mail User Agent, Mail Delivery Agent and Mail Transfer Agent.
- (f) Write an SSI page that will display the long listing of the directory/*home/tyit*.

Paper Discussion Schedule for all Subjects

Date	Day	Timing	Centre
23 Oct. 2017	Monday	5.00 p.m. to 7.00 p.m.	Nerul
24 Oct. 2017	Tuesday	9.00 a.m. to 11.00 a.m.	Ghatkopar
24 Oct. 2017	Tuesday	12.00 p.m. to 2.00 p.m.	Thane
24 Oct. 2017	Tuesday	3.00 p.m. to 5.00 p.m.	Dombivli
25 Oct. 2017	Wednesday	9.00 a.m. to 11.00 a.m.	Dadar
25 Oct. 2017	Wednesday	12.00 p.m. to 2.00 p.m.	Andheri
25 Oct. 2017	Wednesday	3.00 p.m. to 5.00 p.m.	Borivali

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