

- 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 **THREE**) [15]  
(a) List and explain duties of System Administrator.  
(b) Discuss Linux Distribution.  
(c) Discuss the different ways to view the content of Text file.  
(d) What are Links? Explain different types of Links.  
(e) How to create and manage Own Repositories.  
(f) Write a short note on Nice and Renice Command, show how to set and change priority using them.
2. Attempt the following (any **THREE**) [15]  
(a) What is Partition and how to create Partition using fdisk command.  
(b) Write a short note on run level in Linux.  
(c) How to configure key based SSH configuration, also show setting up two way authentication.  
(d) How to set up network using command?  
(e) What are the different Advance Permissions?  
(f) Write a short note on /etc/passwd.
3. Attempt the following (any **THREE**) [15]  
(a) What is Masquerading and how to configure NAT?  
(b) How to disable unknown user in FTP?  
(c) How to create self-signed certificate?  
(d) What are different NFS server permissions and also explain showmount command.  
(e) How to encrypt and decrypt files in Linux using GPG?  
(f) Show the configuration for sharing / home / TYIT from Linux to Windows.
4. Attempt the following (any **THREE**) [15]  
(a) How to configure DHCP server?  
(b) Show the configuration of Primary DNS server.  
(c) How to configure Virtual Host?  
(d) Show how Linux send a mail to External User.  
(e) Show the basic configuration of dovecot.  
(f) Show the configuration of how web server will host a website?
5. Attempt the following (any **THREE**) [15]  
(a) What are the requirement of HA Clustering.  
(b) How to configure Network server as an Installation Server?  
(c) Write a short note on Kick start file and its Configuration.  
(d) Write a script to print sum of N Natural numbers.  
(e) Write a script to monitor user login, also explain Until Loop.  
(f) With example explain case - esac.

**Paper Discussion Schedule for all Subjects**

<b>Date</b>	<b>Day</b>	<b>Timing</b>	<b>Centre</b>
12 Nov. 2018	Monday	9.00 a.m. to 11.00 a.m.	Nerul
12 Nov. 2018	Monday	12.00 p.m. to 2.00 p.m.	Thane
12 Nov. 2018	Monday	3.00 p.m. to 5.00 p.m.	Dombivli
13 Nov. 2018	Tuesday	9.00 a.m. to 11.00 a.m.	Ghatkopar
13 Nov. 2018	Tuesday	12.00 p.m. to 2.00 p.m.	Andheri
13 Nov. 2018	Tuesday	3.00 p.m. to 5.00 p.m.	Borivali
14 Nov. 2018	Wednesday	9.00 a.m. to 11.00 a.m.	Dadar

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