	(3 Hours) [Total Marks: 1	00]
N.	 B.: (1) All questions are compulsory. (2) Make suitable assumptions wherever necessary and state the assumptions m (3) Answers to the same question 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. 	ade
1. a. b.	Attempt <u>any two</u> of the following: What is purpose of MTA? Explain how MTA works? Write different classes of IP address. Also write the net mask, range of value for first byte and the IP numbers generally used by these networks. Explain the process of Tracing Email Delivery along with various components of Email program.	10
d.	State and explain any five directives for configuring the default server in Apache.	
2. a. b. c. d. e. f.	Attempt <u>any three</u> of the following: Write a short note on LVM. Explain how GRUB works. What is runlevel? List various runlevels. Explain them. Explain the duties of system administrators. What is the importance of rc scripts? Explain. Explain booting sequence of Linux Operating System.	
3. a. b. c. d. e.	Attempt <u>any three</u> of the following: Explain the concept of subnetting with suitable example. What is DHCP? How to configure DHCP? Explain with suitable example. How can network services be started from xinetd and rc scripts? What are the general, server-specific and client-specific NFS security issues? Explain the following:	15
f. 4. a.	 i. cron ii. grub.config iii. ld.so.config iv. syslog.config v. logrotate.con List various squid configuration parameters. Also write their purpose. Attempt <u>any three</u> of the following: Write and explain the steps to configure the time server. 	fig 15
b. c. d.	Explain use of ssh, scp, sftp services On a Linux machine a directory named /home/TYIT/exam is created. If the user wants to access this directory from windows machine what configuration is needed? Write and explain Explain the following options of samba configuration file a. workgroup b. smbpasswd file c. security d. dns proxy e. server string	
e. f	How to configure NTP server to use autokey encryption? Explain in detail the [homes] section of /etc/samba/smb conf file	

5. a	Attempt <u>any three</u> of the following: Explain how MTA works.	15
b	Explain the working of IMAP4. What is the difference between IMAP4 and POP3?	
С	How is SendMail configured and used? Explain.	
d	How is postfix configured?	
e	How to configure NTP client to use autokey encryption?	
f	What is a caching proxy server? Explain squid and state the steps involved in its	
	configuration process.	
6.	Attempt <u>any three</u> of the following:	15
a.	What are the common mailman administrative tasks? Explain.	
b.	Write the features of Apache.	
c.	What are the steps to enable guest user ftp accounts?	
d.	State and explain any five SSL-related configuration directives that are useful	
	while running vsftpd over SSL.	
e.	Write the purpose of the following global configuration directives of httpd.conf	
	a. Keepalive b. KeepaliveTimeout c. MaxClients d. ServerLimit e. StartServers	
f.	How to set up an Dovecot IMAP server?	
7.	Attempt any three of the following:	15
a.	Explain the /etc/shadow and /etc/passwd files.	
b.	Enumerate the features of sudo.	
C.	How can CGI be enabled with Apache?	
d.	Explain the quotacheck command with example.	
e.	Explain rpmquery command with options.	
f.	What are the changes in Apache 2?	