Q.P. Code: 361301

	(3 Hours) [Total Marks: 100	\$ 19 g
N.B. : (1)	All questions are compulsory.	
(2)		
	assumptions made.	
(3)	Answers to the same question must be written together.	3,0
(4)	Numbers to the right indicate marks.	P
(5)	Draw neat labeled diagrams wherever necessary.	
(6)	Use of Non-programmable calculators is allowed.	
1. Answer	any two of the following:	10
(a)	Explain Smbclient, smbmount commands with suitable example.	10
(b)	Exlplain the use of cron files.	
(c)	Explain the concept of subnetting with example.	
(d)	Write a short note on GRUB.	
2. Attempt	any three of the following:	15
(a)	Write the importance of rc scripts.	
(b)	Explain the concept of runlevel used in Linux.	
(c)	What is RAID? Write different types of RAID. Explain various levels of RAID.	
(d) §	Write the purpose of any five directories of/.	
(e)	Write the basic steps used to boot the system.	
(t)	Write the duties of system administrator.	
3. Attempt	any three of the following:	15
(a)	Explain the concept of NFS with suitable example.	
(b)	What is CIDR? Explain with suitable example.	
(c)	Explain the concept of DHCP with example.	
(d)	Write the advantages and disadvantages of NFS.	
(e)	Explain any five NFS export options.	
(f)	List various files used in Linux to add a system to network. Explain.	

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4.	Attempt	any three of the following:	15
	(a)	Write the steps to configure squid.	\$ \$ \$
	(b)	Explain how to optimize samba service?	
	(c)	Write the purpose of various NTP utility programs.	200
	(d)	List options of the global section of samba configuration file. Also write	
		the purpose of each.	
	(e)	List the secure services and explain them with suitable example if any.	þ
	(f)	Explain the scp and sftp services with suitable example.	
5.	Attempt	any three of the following:	15
	(a)	List and explain different types of Domain Name Servers.	
	(b)	Explain the working of POP3 and IMAP.	
	(c)	Explain any five directives of vsftpd.conf file.	
	(d)	Give example of zone file. Explain	
	(e)	List key components that are essential for email to work. Explain in short.	
	(f)	Write the advantages of vsftpd.	
6.	Attempt	any three of the following:	15
	(a)	Write the steps to configure mailman.	
	(b)	What is the purpose of MPM? Explain different approaches to process creation and control.	
	(c)	Explain the directory block of httpd.conffile.	
	(d)	Write a SSI script that will display long listing of /root.	
	(e)	Explain the working of Apache web server.	
	(f)	Write a short note on content negotiation.	
7.	Attempt	any three of the following:	15
	(a)	List various commands used to manage the groups in Linux. Also write	
50		the purpose of each.	
	(b)	Explain how to optimize web service.	
300	(c)	Explain with suitable example user creation using command.	
300	(d)	Explain rpmquery command with options.	
	(e)	Explain with example how password of multiple users can be changed in a	
3		single operation.	
	(f)	What are the advantages of shadow password over traditional password system?	