

Q.P. Code : 01769

[Time: 2 $\frac{1}{2}$ Hours]

[Marks:75]

Please check whether you have got the right question paper.

- N.B:
1. All questions are compulsory.
 2. Make suitable assumptions wherever necessary and state the assumptions made.
 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 calculator is allowed.

- Q. 1** Attempt any two of the following: (10)
- a) Enumerate the features of Linux operating system.
 - b) Explain the duty of the Linux system administration in creating and maintain user accounts.
 - c) What are rc scripts? Explain in detail.
 - d) What hardware information is contained in the /proc directory? Explain the importance files in the /proc directory.
- Q. 2** Attempt any two of the following: (15)
- a) Explain any ten important files in /etc/ sysconfig directory.
 - b) What are routers and gateways? How is IP forwarding configured on Linux? Explain.
 - c) Enumerate the new features in NFS4.
 - d) How are NFSv4 client and server configured? Explain.
- Q. 3** Attempt any two of the following: (10)
- a) How can windows PC be connected to Samba server? What are the advantages of using Samba over NFS?
 - b) What is Samba? What is server message block? Explain.
 - c) Explain the different NTP utility programs.
 - d) Explain the squid configuration parameters.
- Q. 4** Attempt any two of the following: (10)
- a) Discuss the following protocols available in Linux:
http, sshd, ftpd.
 - b) Explain the different standalone services in Linux.
 - c) What are the different files required for DNS server configuration? Explain each in brief.
 - d) Explain the Host and the dig programs.
- Q. 5** Attempt any two of the following: (10)
- a) What is a macro? What is the m4 macro processor? Explain.
 - b) How is Postfix server run on a mail host? Explain.
 - c) How is vsftpd configured? Explain the important configuration files of vsftpd.
 - d) Enumerate and explain the steps to enable guest user ftp accounts in vsftpd.

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Q. 6 Attempt any two of the following:

(10)

- What is content negotiation? Explain with example.
- Explain the <Files><Files>and<IfModule></IfModule>blocks.
- How can we change the login shell of the user and password expiration policy? Explain the commands with their options.
- How can we verify the rpms? What information is evaluated during the verification process? Explain the rpm verification keys.

Q. 7 Attempt any three of the following:

(15)

- Explain the FAT, FAT32 and NTFS file systems.
- What are the advantages and disadvantages of NFS? Explain.
- How are reference clocks configured? Explain.
- What are zone statement? Explain the different values for the zone statement.
- Explain the important sendmail files and commands.
- How can the shadowed group file be used? Explain.