[Total No. of Questions - 9] [Total No. of Printed Pages - 3]

Jul.-23-0212

CS-604 (Linux Administration)

B.Tech. 6th (CBCS)

Time: 3 Hours

Max. Marks: 60

The candidates shall limit their answers precisely within the answerbook (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note: Candidates are required to attempt five questions in all selecting one question from each of the sections A, B, C and D and all the subparts of the question in Section E.

SECTION - A

- (a) What are the primary architectural differences between the Window and Linux operating systems. Explain. (5)
 - (b) What are the things to consider before installing Linux server configuration. (5)
- (a) Why does not Linux have a registry? And how X-Window System differs from the Windows GUI? (5)
 - (b) What exactly is a kernel? Gives the specific steps required to compile Linux kernel. (5)

SECTION - B

- (a) What do you mean by active and passive FTP? Discuss about the customization of FTP server.
 (5)
 - (b) Explain, how we can create a secure, tunnel from your local system to a remote system using Secure Shell . (SSH).
- (a) Discuss, about the specific steps in installation and configuration of a basic Postfix mail server. (5)

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(5)

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(b) Explain the importance of POP and IMAP server.

SECTION - C

- (a) Compare the Network File System (NFS) in Linux and Window. Also discuss about features of each NFS version.
 - (b) What do you mean by soft, hard and cross mounts? Discuss. (5)
- (a) Discuss the impact in user's login process after NIS has been deployed for use.
 - (b) Explain the use of various NIS tools. (5)

SECTION - D

- (a) Discuss about foreground and background process in Linux with suitable examples.
 - b) Write a shell script to convert a decimal number into binary number.
 (5)
- (a) Explain the process creation mechanism with suitable diagram.
 (5)
 - (b) Write a shell script to calculate simple arithmetic operations using switch case. (5)

SECTION - E

- 9. (a) Is GNU the same as Linux?
 - (b) What are the advantages of OSS?
 - (c) What do you mean by boot loader?
 - (d) What do you mean by mail transport agents (MTAs), mail delivery agents (MDAs), and mail user agents (MUAs)?

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- (e) What is DNS Server?
- (f) Give the names and use of various NIS tools.
- (g) What facilities are provided by Network Information Service (NIS)?
- (h) How Network File System (NFS) works in Linux?
- (i) What is shell script?
- (j) Explain the different types of shells. (10×2=20)