MCA-305

December - Examination 2018

MCA III Year Examination

Linux Administration System

Paper - MCA-305

Time : 3 Hours]   **[Max. Marks :- 80**

Note: The question paper is divided into three sections A, B and C. Write answers as per given instructions.

Section - A $8 \times 2 = 16$

(Very Short Answer Questions)

Note: Answer **all** questions. As per the nature of the question delimit your answer in one word, one sentence or maximum upto 30 words. Each question carries 2 marks.

1)   (i)   Give the definition of Operating System.

     (ii)   What is GNU?

     (iii)   What is *Init* process?

     (iv)   What do you mean by network sniffing?

     (v)   What is used of "ls" command in LINUX?

     (vi)   List the uses of DNS server.

     (vii)   Which protocol is allowed to a user to retrieve her/his mail from the mail server to her/his mail reader?

     (viii)   Differentiate between the super user and normal user in Linux.

Section - B $4 \times 8 = 32$

(Short Answer Questions)

Note: Answer **any four** questions. Each answer should not exceed 200 words. Each question carries 8 marks.

2) Explain Ubuntu Architecture with its advantages in detail.

3) Discuss the basic components of Linux Operating System.

4) Briefly explain the term Boot block, Super block, Inode table, and Data blocks.

5) Explain the procedure of editing of a file using command line in Linux with an example.

6) Describe the following file commands in Linux with an example:

(i) unzip

(ii) tar

7) Describe the main functions of some of the configuration files that are stored in /etc directory in Linux.

8) Write the different procedure steps to disable user account temporarily.

9) Write short note on Network File System (NFS).

Section - C $2 \times 16 = 32$

(Long Answer Questions)

Note: Answer **any two** questions. You have to delimit your each answer maximum upto 500 words. Each question carries 16 marks.

10) What is open source Software? Explain the criteria's that must be comply with the open-source software.

11) What is the use of Shell? Explain various type of Shell in Linux Operating system.

12) What is function in Shell Scripting? Write procedure to find prime number among first 100 natural numbers.

13) Write short note on the following:

    (i)   Inter-Process Communication

    (ii) GRUB Boot Loader

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