

MCA-305
December - Examination 2019
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 × 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 Shell.
 - ii. What is the use of the PING command?
 - iii. What do you mean by Open Source?
 - iv. What is the meaning of the command:-
\$chmod 754 newfile?
 - v. Is it legal to edit Linux Kernel? Explain.
 - vi. What is a Virtual Machine?
 - vii. What is the role of the *init* process?
 - viii. What protocol(s) is(are) allowed a user to retrieve her/his mail from the mail server to her/his mail reader?

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 the difference between LINUX and UNIX.
3. Explain the X Windows System. How it is different from other Windows?
4. Explain the configuration of FTP server and client.
5. Write a short note on Vi Editor.
6. Describe the following file commands in Linux with an example: - (a) ps (b) kill.
7. Write a program in the shell script to find the factorial of a number.
8. Explain the Boot block, Superblock, Inode table, and Data blocks.
9. Discuss the common administrative tasks.

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. Describe the working of the shell? Describe in brief the different types of shells.
11. How to find the process id of a program (say firefox) running on your machine? Write the command to close the program using the command line. Explain the steps briefly.
12. What is DHCP? Write the steps to configure the DHCP server.
13. Write a short note on the following:
 - a. File types and permission.
 - b. Partitioning the hard drive