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Roll No.

MCA-20 A
Linux System Administration
Master of Computer Application
(MCA-11/16/17)
Fifth Semester
Examination-2019

Time : 3 Hours

[Maximum Marks : 80

Note : This paper is of Eighty (80) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

Section–A

(Long Answer Type Questions)

Note : Section A contains Five (05) long-answer-type questions of Fifteen (15) marks each. Learners are required to answer any three (03) questions only. **(3×15=45)**

1. Compare the features of Unix operating system with Linux operating System.

(2)

2. Describe the architecture of Unix operating system with the functioning of its various shells.
3. (a) Write a shell script which displays a list of all files in the current directory to which you have read, write and execute permission.
(b) Write a shell script to print all the prime numbers lying between 1 to 300.
4. Describe various disk management commands in Unix with suitable examples.
5. Describe various memory management routines in detail.

Section–B

(Short-Answer-Type Questions)

Note : Section 'B' contains Eight (08) short-answer-type questions of Seven (07) marks each. Learners are required to answer any Five (05) questions only. **(5×7=35)**

1. Explain the concept of multitasking.
2. Explain the mechanism of various looping statements in Unix shell programming.

(3)

3. Differentiate between break and continue statements with suitable examples.
4. What do you mean by I/O Multiplexing?
5. What is the role of a super block?
6. What do you mean by Zombie and Orphan process?
7. What is mechanism of a pipe in Unix?
Explain with suitable example.
8. Explain the following commands with example :
mkdir rmdir