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MCA-20A
Linux System Administration
Master of Computer Application (MCA-11/16/17)
5th Semester Examination June 2022

Time : 2 Hours   Max. Marks : 80

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

Section-A

(Long Answer-type questions)

Note: Section 'A' contains Five (05) Long-answer type questions of Twenty (20) marks each. Learners are required to answer any two (02) questions only.

(2 x 20 = 40)

P.T.O.

Q.1.   Describe various features of UNIX operation System.

Q.2   What do you mean by system calls? Describe various types of system calls.

Q.3   Write a shell script which will receive any number of filenames as arguments. The shell script should check whether every argument supplied is a file or a directory. If it is a directory, it should be appropriately reported. If it is a filename then name of the file as well as the number of lines present in it should be reported.

Q.4   How does inter process communication occur in Unix? Describe in detail.

Q.5   a.   What is the structure of a shell script of a C program in Unix?

    b.   Write a shell script which deletes all lines containing the given word in the files supplied as arguments to this shell script.

P.T.O.

Section-B

(Short Answer-type questions)

Note: Section 'B' contains Eight (08) Short-answer type questions of ten (10) marks each. Learners are required to answer any four (04) questions.

(4 x 10 = 40)

Q.1 In grep command, what does "grep" stand for? Also explain its mechanism.

Q..2 Describe Logical Operators in Unix with suitable examples.

Q.3 Explain chmod command with suitable examples.

Q.4 Discuss the concept of Time Sharing in Unix operating system.

Q.5 What is the role of a boot block?

Q.6 What is an Inode table?

Q.7 What do you mean by semaphore?

Q.8 Explain the following commands with example:
sort cut

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