Roll No ....

MCADD-705(1)
M.C.A. (Integrated), VII Semester
Examination, November 2019
Unix and Shell Programming

Time : Three Hours

Maximum Marks : 70

Note :   i)   Attempt any five questions.

   ii)   All questions carry equal marks.

1.   a)   What are the features of UNIX operating system?

   b)   Discuss the architecture of UNIX operating system.

2.   Discuss various scenarios for retrieval of buffer. Also write get black algorithm.

3.   a)   What is inode? What information does it contain?

   b)   What information does super block contain? Explain in detail.

4.   a)   Explain Inode assignment to a new file.

   b)   Discuss the structure of directory in UNIX.

5.   a)   Discuss the layout of system memory.

   b)   Explain sleep process creation and termination.

6. a) What are shell variables system variable and special variables? Mention some of these variables.

   b) Write a shell scripts that counts the number of directories in current directory.

7. a) Write a note on Grep family. Also compare sed and grep.

   b) Discuss various flavours of LINUX.

8. Write short notes on any three:
   i) Buffer header
   ii) Process states
   iii) Unix editors
   iv) Mounting and unmounting of file system.

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