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# MCA-502

## MCA. V Semester

Examination, December 2016

## **Unix and Shell Programming**

Time: Three Hours

Maximum Marks: 70

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Note: i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.

- ii) All parts of each question are to be attempted at one place.
- iii) All questions carry equal marks, out of which part A and B (Max. 50 words) carry 2 marks, part C (Max. 100 words) carry 3 marks, part D (Max. 400 words) carry 7 marks.
- iv) Except numericals, Derivation, Design and Drawing etc.

#### Unit - I

- a) Define Kernel in Unix.
  - b) What is Buffer Headers?
  - c) Explain multi user capability of Unix.
  - d) Discuss the scenarios for retrieval of the buffer.

OR

Discuss advantage and disadvantage of buffer cache.

## Unit - II

- 2. a) Explain absolute path name and relative path name.
  - b) What are different types of files in an Unix operating system?
  - c) Write the syntax of STAT and FSTAT.
  - d) Explain file systems and inodes.

OR

Write short notes on

- i) Mounting and Unmounting
- ii) Link and Unlink

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#### Unit - III

- 3. a) What is Process?
  - b) Write the mechanism of process creation.
  - Explain any four commands related to process in Unix OS.
  - d) What is parent child relationship? With the help of a diagram explain the Unix file system.

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OR

Write the solution with master and lane process.

#### Unit - IV

- 4. a) What do you mean by "exporting shell variables"?
  - List and explain various special parameters used by shell script.
  - c) Write a short notes on "Gnep family".
  - d) Write a shell script to create a menu, which displays the list of files, current date, process status and current users of the system.

OR

What is Shell Script? Write a script that accepts a file name as argument and display the last modification time if the file exists and a suitable message if it does not.

### Unit - V

- 5. a) What is chop() function?
  - b) Explain the list and array use in Perl.
  - Explain programming features supported by "awk" for flow control
  - Explain if statement for and while loop statement with respect to awk with suitable example.

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Discuss the features of Linux.

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