4C8133

Roll No. _____ Total No of Pages: 3

4C8133

MCA IV - Sem. (Main & Back) Exam., May - 2019

MCA – 403A Open Source Operating System

Time: 3 Hours **Maximum Marks: 80**
Min. Passing Marks: 32

Instructions to Candidates:

Attempt all question. Marks of question are indicated against each question.

Use of following supporting material is permitted during examination.

(Mentioned in form No. 205)

1. NIL 2. NIL

[10×1=10]

Q.1 Answer each part in one line –

(a) What is Open Source Operating System?

(b) Name various shells of Linux.

(c) What is Bootstrapping?

(d) What is active directory?

(e) What is the difference between Linux Internal and Linux External commands?

(f) Write down the command to count the number of lines in a file.

(g) Write down the commands to sort the lines of data in a file in alphabetical order.

(h) What is a System Call?

[1340]

(i) What is the command to list ALL (including Hidden) files of current directory and its sub directories?

(j) Write a Linux command to change the access mode of the file named "Hello" such that only read permission is granted to anybody accessing the file, except the owner.

Q.2 Answer each part in 50 words – [5×3=15]

(a) Explain the file naming conventions in Linux.

(b) How can a file system be mounted?

(c) What do you mean by i-nodes? Explain.

(d) Explain 'expr' command with example.

(e) What is Super Block?

Q.3 Answer each part in not more than 150 words – [5×4=20]

(a) Explain file system of Linux operating system.

(b) What is the use of BootLoaders? Explain.

(c) What does the shell do with the metacharacters if it finds in the command line?

(d) Explain different shell environment variables.

(e) Write a shell script to input a filename from user and delete that file if it exist else provide appropriate message to the user.

Q.4 (a) Describe Linux operating system and explain the structure of Linux in detail. [10]

(b) Explain the redirection, filter and pipes in Linux with suitable examples. [10]

Q.5 (a) Explain system security provided by Linux operating system. [5]

(b) How users are managed in Linux operating system? [5]

(c) Define a system call? Explain how the system call differs from that of the library functions. [5]

OR

Q.5 (a) Explain in detail the Booting and Shutting down process of Linux operating system. [10+5=15]

(b) Explain 'awk' advanced filter.

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M. C. A. (Sem. IV) (Main & Back) Examination, April-May 2018

MCA-403A Open Source Operating System

Time : 3 Hours **Maximum Marks : 80**

Min. Passing Marks : 32

Attempt all question. Marks of question are indicated against each question.

Use of following supporting material is permitted during examination. (Mentioned in form No. 205)

1. NIL 2. NIL

UNIT - I

1 Answer each part in one line :

(i) Where is the password stored in UNIX ?

(ii) Which ls option marks directories and executables separately ?

(iii) How do you locate lines containing "saxena" and "saksena" from the file emp.lst by the use of grep ?

(iv) What will the regular expression a.*b match ?

(v) Write any four built in variables and their function which used by *awk*.

(vi) How will you copy a directory structure bar 1 to bar 2 ?

(vii) Differentiate between tty and tput.

(viii) What will be the output of command *man time* ?

(ix) Write the syntax for deleting a file whose name is *chap*[1-3]* ?

(x) How can you match the all file names beginning with an alphabet ?

10×1=10

2 Answer each part in 50 words :

(i) Diagrammatically explain all the modes of *vi* editor.

(ii) Write short note on *who* command available in UNIX.

(iii) Explain any five relational operators available for shell programming with their meaning and example.

(iv) What is the significance of parameter *$?* in shell programming ? Explain with example.

(v) Write a shell script which accepts values from 1 to 4, and perform some action depending on the number pressed.

5×3=15

3 Answer each part in 150 words :

(i) Describe various characteristics of Unix.

(ii) Differentiate between absolute and relative pathnames. Give example of absolute path name.

(iii) What do you understand by redirection ? Explain with example.

(iv) Explain all wild-card characters of Shell.

(v) Write short note on the following commands with example :

(a) Pipes

(b) comm-3

5×4=20

4 (a) What do you understand by Unix file system ? Explain different types of files in Unix Operating System.

10

(b) Explain the concept of Kernel and Shell in detail.

10

5 Write in detail about ownership and access permissions of any file in UNIX.

15

OR

5 What do you mean by shell script ? Explain following with suitable example :

(a) for loop

(b) Numeric Comparison with test

(c) if Statement.

15

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M. C. A. IV-Sem. (Main & Back) Exam; April-May 2017

MCA-403 Linux Operating System

Time : 3 Hours **Maximum Marks : 80**

Min. Passing Marks : 32

Instructions to Candidates :-

Attempt all question. Marks of question are indicated against each question. Use of following supporting material is permitted during examination. (Mentioned in form No. 205)

1. NIL 2. NIL

1 Answer each part in one line :

(a) What is super block ?

(b) What is Mount ?

(c) Which is new file creation command ?

(d) What is kernel ?

(e) Which command is used to see the current directory ?

(f) What is the use of cat command ?

(g) What are file permission types ?

(h) Give syntax of 'cp' command ?

(i) Give syntax of 'mv' command ?

(j) What is init ? **10×1=10**

Linux 2017

2 Answer each part in 50 words :

(a) What is signal handling ?

(b) What is system call ?

(c) Write the syntax of case-switch.

(d) What is redirection and piping ?

(e) What are various types of shell in Linux ?

3×5=15

3 Answer each part below in150 words :

(a) Explain linux architecture.

(b) Differentiate mounting and unmounting.

(c) Explain working of vi editor.

(d) Write a shell script to print the table of 2.

(e) Write a shell script to find maximum between two inputed numbers.

4×5=20

4 (a) What is the process of booting and shutting down ? **10**

(b) Explain linux file system in detail. **10**

5 What is the process of setting up print server ? **15**

OR

5 Explain NIS server. **15**
