

<b>4C8133</b>	Roll No. _____	Total No of Pages: <b>3</b>
	<b>4C8133</b>	
	<b>MCA IV - Sem. (Main &amp; Back) Exam., May - 2019</b>	
	<b>MCA - 403A Open Source Operating System</b>	

**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

**Q.1 Answer each part in one line –**

**[10×1=10]**

~~(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?

- (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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