



Systems Administration BIT Weekend

System Administration (Ghana Communication Technology University)



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GHANA COMMUNICATION TECHNOLOGY UNIVERSITY



FACULTY OF COMPUTING AND INFORMATION SYSTEMS

BSc INFORMATION TECHNOLOGY (LEVEL 400)

END OF SECOND SEMESTER EXAMINATIONS, AUGUST 2024

WEEKEND STREAM

Course Code: IT412

COURSE TITLE: Systems Administration

Duration: 2 Hours 30 Mins

Answer any 4 Questions from the following. Each question carries 15 marks.

1. QUESTION 1

- a. Describe any 5 duties that are solely conducted by system administrators. [5 marks]
- b. As a System Administrator, explain any 5 good work practices expected from you [5 marks]
- c. Explain any 5 common system administrator traits. [5 marks]

2. QUESTION 2

Using your understanding of open source commands (Linux), answer the following:

- a. Write a Linux command to create a directory “TryOne” in your home directory. [2 marks]

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- b. Write a Linux command to create in the directories *~Com1/Dir4/Com3/Dir2* (Dir2 is a subdirectory from Com3, and Com3 is a subdirectory from Dir4, etc).
[2 marks]
- c. Write a Linux command to create a directory *~/Fearful* and make it current working directory.
[2 marks]
- d. Write a Linux command to create the files *fantas.text* and *camp.text*
[2 marks]
- e. Write a Linux command to create a directory called *~/backup* and copy all files from *~/Fearful* into it.
[3 marks]
- f. Write a Linux command to Rename *camp.text* to Fireworks
[2 marks]
- g. Write a Linux command to remove the directory *~/backup* and all files in it.
[2 marks]

3. QUESTION 3

- a. How can one display the **last 4** or **first 3** lines of a file in Linux?

[2 marks]

- b. Explain the following lines of commands

```
paul@debian8:~$ echo three >part2
paul@debian8:~$ echo two >part1
paul@debian8:~$ echo one >part3
paul@debian8:~$ cat part1
two
paul@debian8:~$ cat part2
three
paul@debian8:~$ cat part3
one
paul@debian8:~$ cat part1 part2 part3
two
three
one
paul@debian8:~$ cat part1 part2 part3 >all
paul@debian8:~$ cat all
two
three
one
```

[4 marks]

- c. With the aid of a diagram, explain Evard's 5 states of a machine and describe how movements between states happen.
[9 marks]

4. QUESTION 4

- a. List any 5 features of Windows Server 2008 [5 marks]
- b. Explain the uses of the following control operators in Linux:
 - I. Double ampersand (&&) [2 marks]
 - II. Semicolon (;) [2 marks]
 - III. Dollar Question Mark (\$?) [2 marks]
 - IV. Double vertical bar (||) [2 marks]
 - V. Pound Sign (#) [2 marks]

5. QUESTION 5

Using your understanding of Shell Variables, answer the following with Linux commands:

- a. Use echo to display **Contention** followed by your username. [2 marks]
- b. Create a variable **Decide** with a value of **100**. [2 marks]
- c. Destroy your **Decide** variable. [2 marks]
- d. Write a Linux command to display the last 5 commands typed [2 marks]
- e. Write a single line command to list (with ls) all files starting with **File** and ending in a number. [3 marks]
- f. What command character can be used to get regular expressions in Linux that matches the start of a string? [2 marks]
- g. Copy the value of \$SCIENCE to \$DeSCIENCE. [2 marks]