



*(University of Choice)*

**MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)  
UNIVERSITY EXAMINATIONS  
2021/2022 ACADEMIC YEAR**

**THIRD YEAR SECOND SEMESTER EXAMINATIONS**

**FOR THE DIPLOMA  
OF  
INFORMATION TECHNOLOGY**

**COURSE CODE: DIT 090**

**COURSE TITLE: INTRODUCTION TO LINUX SYSTEM**

**DATE: 22/04/2022      TIME: 3:00P.M-4:30P.M**

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**INSTRUCTIONS TO CANDIDATES**

Answer SECTION **A** and any other **Two** questions from SECTION **B**

**TIME: 1 Hour 30 Minutes**

**MMUST observes ZERO tolerance to examination cheating**

**SECTION A (24 Marks)**

1. What command clears the contents of your terminal display?
  - A. Clear
  - B. Catch
  - C. Delete
  - D. Remove
  
2. What is the command to delete a file?
  - A. Rm
  - B. Rk
  - C. Rc
  - D. Dl
3. What command is used to change directories?
  - A. Dc
  - B. Cdc
  - C. Cd
  - D. None of these
5. What command is used to change ownership of a file?
  - A. Chawn
  - B. Chown
  - C. Chan
  - D. Cd chown
6. What command is used to copy a file?
  - A. Px
  - B. Xp
  - C. Cp
  - D. None of these
8. What command shows you what directory you are in?
  - A. Ppx
  - B. Px
  - C. Wpd
  - D. Pwd
9. What command creates an empty directory?
  - A. Mkdir
  - B. Ipp
  - C. Cd chown
  - D. None of these
10. Which command(s) show users that are logged in?
  - A. Px
  - B. Who
  - C. Remove
  - D. Catch
  
11. What command is used to count the total number of lines, words, and characters contained in a file?

- B. Chowdn
- C. Chan
- D. chmod

20 Which directory contains a lot of the files that the programs use to run. This directory is needed to control the operating system.

- A./bin
- B./tmp**
- C./proc
- D./lib

21. Which directory is used to store Kernel information needed to start the OS on startup?

- A. /dev
- B. /proc
- C. /etc
- D. /boot

22. What does the / directory signify?

- A. Root directory
- B. An empty directory
- C. A new directory
- D. None of the above

23. What directory contains all the devices and their references in the file system?

- A. /mnt
- B. /lib
- C. /dev
- D. /home

24. Which of the following is not a Linux distribution?

- A. Getian
- B. CentOS**
- C.Fedora
- D.Arch Linux

- A. Countw
- B. wcount
- C. wc
- D.Count P
- E. None of the above

12. What command is used to remove files?

- A. dm
- B.rm
- C. delete
- D. erase
- E. None of the above

13. What command is used to remove the directory and its contents?

- A. rdir
- B. remove
- C. rd
- D. rmdir
- E. None of the above

14. What command is used to count just the number of lines contained in a file?

A. wc -r

B. Wc -w

C. wc -c

D.wc -l

E. None of the above

15. Which command displays the contents of a file?

- (A) cat
- (B) T pipe
- (C) ls
- (D) tee

16. Who developed Linux?

(A) Dennis Ritchie

(B) Linus Torvalds

(C) Ken Thompson

(D) Prof. Andrew S. Tannenbaum

17. All directories are stored under one main directory called \_\_\_\_\_

(A) Server

(B) Home

(C) Folder

(D) Root

18. The **cd** command stands for

(A) complete directory

(B) created directory

(C) change directory

(D) current directory

19. What command is used to change user access permission of a file?

A. Chawn

## SECTION B(36 Marks)

1. Alisha ran ls-l command and the following details about a file was generated

**-rwxrwx-r-- 1 nysel cc\_staff 700 2008-07-27 20:45 file1**

### Answer the following questions

- i. Make a copy of file1 and name it file1backup (2marks)
  - ii. Is file1 (above a directory or a normal file)? Give reason (2marks)
  - iii. Identify file owner and the group where the file belongs (2marks)
  - iv. What is the size of the file (1mark)
  - v. Write a command to perform the following tasks
    - a. Give other users execution permission (3marks)
    - b. Give the group where the file belongs execution permission (3marks)
    - c. Deny all the categories read permission (3marks)
    - d. Deny the user(owner) Read and Write permission (2marks)
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2. Mr. Roberts, the systems administrator was tasked to create backup directory named **BKUP2021** and a configuration file named **stir.conf**. In your current directory sing Linux command
    - a. Create the **BKUP2021** directory(1mks)
    - b. Create the **stir.conf** file (1mks)
    - c. Allow All users to have execution permission on the **stir.conf** file (3marks)
    - d. Make a copy of the **stir.conf** file and name it **star2.conf** (2 marks)
    - e. Rename the directory **BKUP2021** to **BKUP2022** (2 marks)
    - f. Move star2.conf file to **BKUP2022** (2marks)
    - g. Give group where the **BKUP2022** belongs **Read, Write and Execution Rights** (3 marks)
    - h. Recursively delete **BKUP2021** directory (2marks)
  3. Assume you have been hired as a network administrator in an organization. Suddenly you are informed that most users of system (Linux Operating system) are unable to login. After analysis you suspect that the password file (**passwd**) is corrupted. Write Linux commands to perform the following activities
    - a. Display on the screen All contents of passwd file (2marks)
    - b. Display on the screen page by page content of **passwd** file(2 marks)
    - c. Display first 5 lines content of **passwd** file(3 marks)
    - d. Display last 15 lines content of **passwd** file(3 marks)
    - e. Count the number of words stored in the passwd file(2marks)
    - f. Count the number of lines used in the passwd file(2marks)
    - g. Display first 30 lines content of **passwd** file and save it to an output file named myoutput.txt (3 marks)
    - h. Delete myoutput.txt file (1mks)