## MOUNTAINS OF THE MOON UNIVERSITY

## FACULTY OF SCIENCE, TECHNOLOGY AND INNOVATION



## SEMESTER TWO EXAMINATIONS - 2023 / 2024

DEPARTMENT : COMPUTER SCIENCES

COURSE CODE : BCS3101

COURSE NAME : SYSTEMS ADMINISTRATION

DURATION : 3 Hour YEAR OF STUDY : THREE DATE OF EXAM : 01/06/2024

TIME OF EXAM : 2:00pm - 5:00pm

## **INSTRUCTION (S):**

- ♦ This is a practical exam
- **♦** Attempt and execute all questions on the console of your Linux virtual box
  - You are to create a directory 'Cover\_Exam' with its sub-directory 'RTH' in your account's home directory (6 Marks)
  - Add a file to 'RTH' called 'Practical.txt' bearing your Name and Registration
     Number (4 Marks)
  - 3. Copy all XPM files from /usr/share/pixmaps to 'RTH' directory (4 Marks)
  - Change permissions of 'Cover\_Exam' directory and its sub-directories such that the
    owner can have full privileges while the group and others can only read privileges
    (8 Marks)
  - 5. Change permissions of the files in 'RTH' directory such that only the **owner** has read and write privileges (8 Marks)
  - 6. Make a gzip backup copy of 'RTH' directory in /var/tmp (8 Marks)
  - 7. Add to your Linux Box three new users 'Medad' 'Makula' and 'Mercy' (9 Marks)
  - 8. Create a new group 'Final' with users 'Makula' and 'Mercy' (6 Marks)

9. Recursively change ownership of 'Cover Exam' to user 'Medad' and group 'Final' (6 Marks) 10. Using command or terminal console assign a Static IP Address 192.168.5.1 to your Linux server (5 Marks) 11. Find the name of the service which uses TCP port 2605, as documented in /etc/services, and write the service name to the file 'Activity.txt' (6 Marks) 12. Find all of the ports used for TCP services IMAP3 and IMAPS, again as documented in /etc/services, and write those port numbers to the file 'Practical.txt' (6 Marks) 13. Change the host name of your linux box to 'central server' (3 Marks) 14. Use appropriate commands to find out the following a. when the last login occurred (2 Marks) b. When the system was last rebooted (2 Marks) c. For how many hours the system has been running (2 Marks) 15. Schedule your server to perform the following tasks; 16. Do a restart every day at 3:00am (5 Marks) 17. Delete all mp4 files in the users home directory on a monthly basis (5 Marks) 18. Delete all files in /var/tmp every 24 hours (5 Marks)

~~HAPPY HOLIDAYS~~