

**ET0023 Lab Test Sample**

Duration: 1 Hour

Name \_\_\_\_\_

Class \_\_\_\_\_

Admission Number \_\_\_\_\_

Marks \_\_\_\_\_

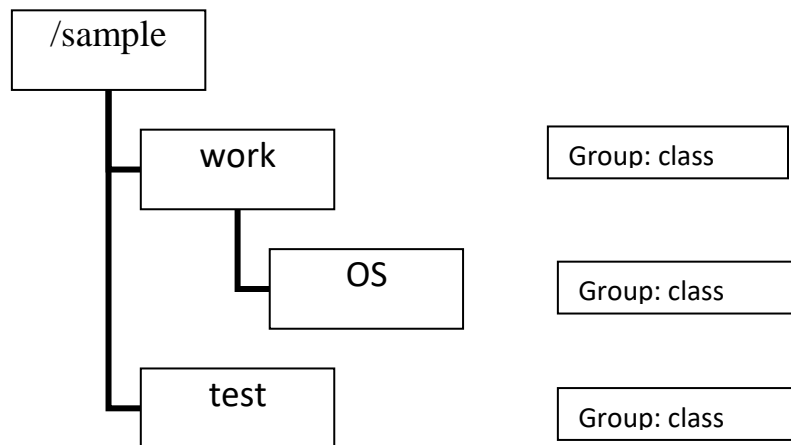
You are logged in as user **student**.

1. Users and Groups. (30 marks)

- a) Create a user named **user1** with a password of **test1** and userid of **1000**  
Create a user named **user2** with a password of **test2** and userid of **1001**
- b) Create a group **class** with a groupid of **1012**.
- c) Assign user1 and user2 to **class** group.
- d) When you create a user, what is the name and location of the file where the user information (including home directory) is stored? \_\_\_\_\_
- e) When you create a group, what is the name and location of the file where the group information is stored? \_\_\_\_\_

2. File and Directory (30 marks)

- a) Create a directory **/sample** with directory permission of **rw-rw-rw-**. ☐
- b) Hence create the following directories in **/sample** and perform the following steps.



1. All the above directories belong to owner **student**.
2. The group owner of all directories above is shown as indicated.

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3. File Permission (20 marks)

- a) Copy and rename **/etc/hosts** as **/sample/work/user1.txt**.
- b) Change the ownership of the file **user1.txt** to the user named **user1**.
- c) Change the group ownership of the file **user1.txt** to the group **class**. Write down the full Linux command that you used to perform this task. \_\_\_\_\_
- d) Change the permissions of **user1.txt** so that user1 and any group member of class has full rwx control but anyone else can only read the file.
- e) Open up a virtual console and login as **user2**. Type **whoami** >> **/sample/work/user1.txt**.
- f) The command to zip and compress the directory **/sample** and its content as **/home/sample.tar.bz2** is \_\_\_\_\_.

4. User **student** to examining the process table. (20 marks)

- a) Issue the **top &** command to start a process. Find the process id of **top**: \_\_\_\_\_
- b) Find the parent process id of **top**: \_\_\_\_\_
- c) Change the priority (**nice**ness value) of the **top** process to +5.

Show this to your lecturer \_\_\_\_\_