



Course Title: Operating Systems for Administrators
Date: 13 / 11 / 2013
No. of Questions: 3 Questions
Time: 1 hours
Using Calculator (No)

Midterm Exam
1st semester 2013/2014
Total Grade:

Instructor Name: Mr.Ahmed Al Astal
Student No.: _____
Student Name: _____
College Name: _____
Using Dictionary (No)

First Question **(6/20)**

Q1 B1 **(6/6)**

Choose the best answer for each of the following

- 1) What are the required skills needed to be a good system administrator?
 - a) Technical Skills
 - b) Communications Skills
 - c) Managerial Skills
 - d) All of them
- 2) The user owner of such a file:
 - a) Must be a member of Systems Admin Group
 - b) Must be member of the Group which owns the file.
 - c) Can belong to a different group from the owner group of the file
 - d) None of the above
- 3) In Unix operating systems, commands are:
 - a) executable files
 - b) different from files
 - c) Block files
 - d) None of them
- 4) When a new file is created, its user owner is :
 - a) The System Admin "Super user"
 - b) The user who created it.
 - c) all users of Wheel Group " Admins Group"
 - d) None of the above.
- 5) You can send a message to all users on the system using the command:
 - a) Write
 - b) Talk
 - c) Wall
 - d) all of them
- 6) A binary file consisting of a list of the other files it contains is called:
 - a) regular file
 - b) Directory file
 - c) Special file
 - d) Links

Second Question **(18/30)**

Q2 B1 **(9/18)**

Write the command/ commands to do each of the following tasks:

- a) Send a message to all users telling them that the internet service will be off today.

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b) Displaying file ownership for all files in the directory `"/home/ahmed/"`

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c) Change the user owner to "John" and the group owner to "Tech" for the file "myfile.c".

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d) Use the numeric mode to set the protection on the file `ahmed.txt` to be: `rwx` for user, `rx` for group, none for others.

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e) If you don't know how the command `fsck` works, how can you get help?

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f) Displays a long directory listing for all files under `/ahmed` directory larger than 1 MB (2048 512-byte blocks) that haven't been modified in a month or not accessed in three months?

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g) Add an entry to the crontab file to make the command `"find / -name "*.bak" -type f -atime +7 -exec rm {} \"` runs every friday at 1:30 pm.

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h) Display the IP-to-MAC address-translation tables.

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i) List the groups of which the user Ahmed is a member?

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Q2 B2

(9/18)

What does each of the following commands/ file Entries means?

a) `$ su root -c "eject /cdrom"` (this is a command)

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b) `# chown -R chavez:chem /home/chavez` (this is a command)

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c) `# chmod u+w,og+r-w myfile.txt first.c` (this is a command)

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d) `$ umask 012` (this is a command)

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e) `$ jobs` (this is a command)

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f) `0,10,20,30,40,50 7-18 * * * /usr/sbin/atrun` (this is a crontab Entry)

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g) `*.err;auth.notice /dev/console` (this is a Syslog.conf Entry)

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h) `chavez:x:190:100:Rachel Chavez:/home/chavez:/bin/tcsh` (this is a passwd file Entry)

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i) `# ifconfig lo0 localhost up` (this is a command)

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Third Question **No. of Branches (1)** **(6/30)**

Q3 B1 **(6/6)**

a) As a system admin, Explain how to Recognize a File Access Problem? (1 Mark)

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b) What is inode? What is the Information stored in inodes ? (1Mark)

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c) What does each of: `/bin`, `/var`, AND `/lost+found` directories store? Explain briefly their importance? (1 Mark)

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d) When a user enters a command like `finger chavez@hamlet` One of the first things that must happen is that the hostname hamlet gets translated to its IP address. There are two most prevalent ways to do this translation, Explain them and their suitability (1.5 Mark)

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e) What is shadow password file? Why it is so important? And what is the meaning of its entry format shown below? (1.5 Mark)
`username:encoded password:changed:minlife:maxlife:warn:inactive:expires:unused.`

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End of Questions
Good Luck