<u>Practical 5: Compression, System Backup, and Software Installation</u> Section A: Short Ouestions

1. The location that contains a copy of files; it typically created by a backup utility is known as
archieve object/file
2. A command used to view the contents of a file created with bzip2 to Standard Output is bzcat filename.bz2 OR bzmore filename.bz2
OR bzless filename.bz2
3. A command used to view the contents of a file created with bzip2 to Standard Output in a page by-page fashion is bzmore filename.bz2 OR bzless filename.bz2
4. A command used to decompress files compressed by the bzip2 command is bzip2 -d filename.bz2 OR bunzip filename.bz2
5. The process by which files are reduced in size by a compression
6. The amount of compression that occurred during compression is known as compression ratio
7. A dpkg command that used to install, query, and remove DPM packages is sudo dpkg -r (dpkgremove) / dpkg -i (dpkginstall) / dpkg-query
8. A rpm command that used to install, query, and remove RPM packages is sudo rpm -e (rpmerase) /rpm -i (rpminstall) /rpm -q (rpmquery)
9. A more user-friendly front-end package management utility/tool that used to install and upgrade RPM packages from software repositories, as well as remove installed RPM packages is
yum
10. The process whereby files are copied to an archive is known as tar (tape archive) OR system backup
Section B: MCQs & (True / False) 1. Which of the following commands extract an archive? a. cpio –vocBL /dev/fd0 b. cpio –vicdu -I /dev/fd0 c. cpio –vicdu -O /dev/fd0 d. cpio –vti –I /dev/fd0
 2. Which of the following commands can be used to list the files contained within an installed RPM package? a. rpm -qa packagename b. rpm -qi packagename

c. rpm –ql packagename

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d. rpm –q packagename
3. Which of the following command can be used to remove the test DPM package, including any
    test configuration files.
        a. dpkg remove test
        b. apt-get remove test
        c. dpkg purge test
        d. apt-get purge test
pg. 1
    4. Which of the following commands creates an archive?
        a. tar -cvf /dev/st0
        b. tar -xvf /dev/st0
        c. tar –tvf /dev/st0
        d. tar –zcvf /dev/st0
    5. Which of the following commands can be used to search for packages that contain the word
        "oobla" on RPM software repositories?
        a. yum search oobla
        b. rpm -qS oobla
        c. yum list oobla
        d. rpm –ql oobla
    6. Which option to the dpkg command can be used to list the files that comprise a package?
        a. –1
        b. –L
        c. -s
        d. -i
    7. Which option to the rpm command can be used to remove a package from the system?
        a. –r
        <mark>b. –е</mark>
        c. –u
        d. -U
    8. The Debian Package Manager (DPM) is the default package manager used by Fedora 20.
        (True/False)
    9. To install a new program from RPM software repositories on the Internet, you can use the
        yum update programname command. (True/False)
    10. Most source code is available on the Internet in tarball format. (True/False)
Section C
Write a "dpkg" related command (options) for the following tasks (part
    a. List all the packages installed on your system.
    dpkg –list
    OR
    dpkg -1
    b. Check whether zip package installed or not.
    dpkg -s zip
    OR
    dpkg -query -s zip
    c. Check the location of xeves package installed.
    dpkg -L xeyes
```

d. Install all **.deb** packages from the directory called **debpackages** sudo dpkg /debpackages/* deb

OR

sudo dpkg –install /debpackages/* deb

e. Create a compressed MyImages-14-09-12.tar.gz file for the directory /home/MyImages.

tar -czvf Mymages-14-09-12.tar.gz /home/MyImages

OR

Tar -czvf Mymages-14-09-12.tar.gz /home/MyImages/*

Section D

As a system administrator, you are assigned to perform the following tasks:

(i) Create a shell script called "mybackupscript" to be located under "/tmp" directory in order to back up all the data store under "/mydir" directory into a back up archive file called "mybackupfile". The back up archive file is to be stored under "/data" directory.

nano /tmp/mybackupscript

OR

vi /tmp/mybackupscript

tar -cvf /data/mybackupfile	/mydir/*	
OR		
tar -cvf /data/mybackupfile	/mydir	

- (ii) Schedule a user cron job to run the above "mybackupscript" created in part
- (i) on 2:30 am from Monday to Friday in December month.

crontab -e

30 02 * 12 1-5 /tmp/mybackupscript

Section E

Schedule a system cron job with the following requirement:

-To remove the directory "/root/backup", and any files and directories it contains as root user on first day of December month at 4:30 pm.

nano /etc/crantab

30 16 1 12 *root rm -r /root/backup