

Member ID: _____

Time: _____

Rank: _____



LINUX OPERATING SYSTEM FUNDAMENTALS (350) REGIONAL 2023

Multiple Choice:

50 @ 2 points each

_____ (100 points)

Test Time: 60 minutes

GENERAL GUIDELINES:

Failure to adhere to any of the following rules will result in disqualification:

1. Member must hand in this test booklet and all printouts if any. Failure to do so will result in disqualification.
2. No equipment, supplies, or materials other than those specified for this event are allowed in the testing area. No previous BPA tests and/or sample tests (handwritten, photocopied, or keyed) are allowed in the testing area.
3. Electronic devices will be monitored according to ACT standards.

Directions: Identify the letter of the choice that *best* completes the statement or answers the question.

1. The command “adduser” can be used to add new users in both Ubuntu and Redhat Linux distributions.
 - A. True
 - B. False
2. In Linux which command can be used to change any user’s password?
 - A. usermod
 - B. password
 - C. chpass
 - D. passwd
3. The Linux command “groupadd” can be used to create a new user group.
 - A. True
 - B. False
4. You can create a new direction in Linux using which command?
 - A. makedir
 - B. mkdir
 - C. diradd
 - D. adddir
5. Which Ubuntu command is used to run a command with superuser (root) privileges?
 - A. surun
 - B. su
 - C. sudo
 - D. suser
6. Which Linux command would allow you to view the manual for specified command/utility?
 - A. manual
 - B. man
 - C. manpage
 - D. man-page
7. What is the name of the package manager SUSE Linux uses?
 - A. yum
 - B. apt
 - C. dnf
 - D. yast

8. The NFS service allows Linux servers to share its folders with Linux clients?
 - A. True
 - B. False
9. Which file would you need to edit to add a new NFS share on a Linux Server?
 - A. /etc/export
 - B. /etc/exportfs
 - C. /etc/exports
 - D. /etc/nfs/exports
10. Which Linux command would provide detailed information for a Kernel Module?
 - A. modinfo
 - B. lsmod
 - C. modprobe
 - D. insmod
11. Which file would you add a non-root user to in order to be able to set cron jobs?
 - A. /var/spool/cron.allow
 - B. /etc/cron.allow
 - C. /etc/cron.d/access
 - D. /etc/cron.access
12. In newer versions of Linux distributions service daemons are controlled by “systemd”.
 - A. True
 - B. False
13. Which Linux command would you use to show a user’s password expiration date.
 - A. passwd
 - B. chage
 - C. useradd
 - D. usermod
14. When configuring persistent mount points in the Linux /etc/fstab file which below would you be able to use to specify the disk/partition?
 - A. UUID
 - B. Disk Label
 - C. Device Name
 - D. All of the other answers are correct
15. You’ve been asked to change ownership of the folder Docs so that owner is root and group is admins, which command below will accomplish this?
 - A. chown root/admin Docs
 - B. chown -u root -g admins Docs
 - C. chown root:admins Docs
 - D. chown -user root -group admins Docs

16. In Linux which command can be used to search for specific folders or files?
- A. locate
 - B. find
 - C. search
 - D. look
17. Which of the following commands can be used to show size of files and folders?
- A. dc
 - B. dd
 - C. df
 - D. du
18. Which Linux command will show all currently loaded/running kernel modules?
- A. modprobe
 - B. lsmod
 - C. modinfo
 - D. listmod
19. In Linux the command “uname -a” will show the currently running Kernel version.
- A. True
 - B. False
20. In Linux you would add the symbol “\$” to the end of a command to run it in the background.
- A. True
 - B. False
21. Which Linux command can be used to show all currently running processes?
- A. jobs
 - B. proclist
 - C. ps
 - D. rp
22. Which Linux command will only list lines from the file words.txt that start with S?
- A. cat words.txt | grep S\$
 - B. cat words.txt | grep ^S
 - C. cat words.txt | grep \S
 - D. cat words.txt | grep S?
23. In the Linux vim editor, you can exit out and save changes using the below keys.
- A. ctrl :Zq
 - B. esc :wq
 - C. esc :wx
 - D. ctrl XX

24. In the vi/vim text editor, which of the following will delete the current line?
- A. dd
 - B. yy
 - C. rm
 - D. rr
25. Which Linux command can be used to specify an additional file or device for additional swapping/paging?
- A. mkswap
 - B. swapon
 - C. inswap
 - D. modswap
26. On Ubuntu the command “apt update” can be used to update the list of available packages?
- A. True
 - B. False
27. Which below is the correct device name for the first partition of the second disk?
- A. /dev/sda1
 - B. /dev/sdb1
 - C. /dev/sdb2
 - D. /dev/sd2p1
28. Which Linux command will show just the last 20 lines of a file?
- A. cat -n 20 filename
 - B. dump -n 20 filename
 - C. tail -n 20 filename
 - D. print -n 20 filename
29. The Linux command “jobs” will show all running processes.
- A. True
 - B. False
30. In Linux bash shell, which below can you add to the end of a command to redirect standard out and standard error to /dev/null.
- A. 1>&2 /dev/null
 - B. 2>&1 /dev/null
 - C. 2> /dev/null
 - D. 1> /dev/null
31. The Linux command “mkswap” will format the specified file or device for use as swap.
- A. True
 - B. False

32. The Linux command “mount” will show all mounted file systems and their size.
- A. True
 - B. False
33. Which Linux command will list all disks and partitions?
- A. blkid
 - B. lsblk
 - C. mount
 - D. listfs
34. When working with vi/vim in Linux which key combo would allow you to exit without saving any changes?
- A. esc :Q!
 - B. esc :q!
 - C. esc :xq!
 - D. esc :X!
35. Which key would allow you to change to edit mode in vi/vim?
- A. i
 - B. e
 - C. w
 - D. a
36. Which Linux command would extract the contents of a tar archive named backup.tar?
- A. tar -czf backup.tar
 - B. tar -tvf backup.tar
 - C. tar -xvf backup.tar
 - D. tar -evf backup.tar
37. In Linux the file “/etc/fstab” is where you would add persistent mount points.
- A. True
 - B. False
38. In Ubuntu Linux you can use this command to show what files will be installed by a .deb package.
- A. dpkg -L <packagename>
 - B. dbkg-deb -c <packagename>
 - C. apt list <packagename>
 - D. apt showfiles <packagename>
39. Which Linux command would grant anyone in the group “admins” read and write access to the file called text.txt?
- A. groupadd admins text.txt
 - B. chown :admins text.txt
 - C. setfacl -m g:admins:rw text.txt
 - D. chmod -g admins +rw text.txt

40. Which Linux command would mount all available devices specified in the /etc/fstab file?
- A. mount /etc/fstab
 - B. mount -a
 - C. mount -m
 - D. mount -f --all
41. Which Linux command below would redirect output of the command “fdisk -l” to a file called layout.txt without overwriting any existing content?
- A. fdisk -l >> layout.txt
 - B. fdisk -l > layout.txt
 - C. fdisk -l > & layout.txt
 - D. fdisk -l &> layout.txt
42. Which Linux command can be used to resume a recently suspended command/process in the background?
- A. background
 - B. bg
 - C. resume
 - D. None of the other answers are correct
43. Which Linux command would only list contents of a file named syslog.txt that match the word “Warning” exactly?
- A. cat syslog.txt |grep -v Warning
 - B. cat syslog.txt | grep Warning
 - C. cat syslog.txt |grep -r Warning
 - D. cat syslog.txt | grep -i Warning
44. On Linux when trying to forcefully stop a command which signal code would you use with the command “kill”?
- A. 1
 - B. 9
 - C. 15
 - D. 17
45. What command will display just the first 10 lines of the /var/log/syslog file?
- A. cut -10 -v /var/log/syslog
 - B. head -n 10 /var/log/syslog
 - C. tail -n 10 /var/log/syslog
 - D. cat -n 10 /var/log/syslog
46. In Linux the keys “control+z” can be used to suspend a running program/process.
- A. True
 - B. False
47. When formatting a single disk, you can only create up to 4 partitions.
- A. True
 - B. False

48. In Redhat Linux you can use the below command to list all installed packages.
- A. dpkg -L
 - B. rpm -qa
 - C. dpkg -l
 - D. yum list
49. Which Linux command can be used to fully extract the contents of backup.gz file type.
- A. gzip
 - B. tar
 - C. gunzip
 - D. unzip
50. On Redhat Linux the command “su” can be used to become the root user.
- A. True
 - B. False