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Question Bank

Class: F.Y.B. Sc.CS
Subject: Linux

Semester: II

Unit-I

Q.1 How could you install the file ipchains-1.3.9-5.i386.rpm?

- a) rpm --qip ipchains
- b) rpm -Uvh ipchains
- c) rpm -ivh ipchains-1.3.9-5.i386.rpm
- d) rpm --e ipchains-1.3.9-5.i386.rpm

Q.2 What command is used to display the characteristics of a process?

- a) au
- b) ps
- c) du
- d) pid

Q.3 A process is _____

- a) Collection of thread
- b) A thread
- c) Software
- d) A running program

Q.4 What does GNU stand for?

- a) GNU's not Unix
- b) Greek Needed Unix
- c) General Unix
- d) General Noble Unix

Q.5 Who developed Linux?

- a) Dennis Ritchie

- b) Linus Torvalds
- c) Ken Thompson
- d) Prof. Andrew S. Tannenbaum

Q.6 Core of Linux operating system is _____

- a) Shell
- b) Kernel
- c) Terminal
- d) Command

Q.7 FSF stand for _____

- a) Free software file
- b) Free software foundation
- c) First serve first
- d) First software file

Q.8 The OS which is not based on Linux is _____

- a) BSD
- b) Ubuntu
- c) CentOS
- d) Redhat

Q.9 Which is the default file system type of Linux?

- a) etx
- b) ext2
- c) ext3
- d) mimix

Q.10 On a typical LINUX installation kernel resides in the following directory?

- a) /home
- b) /boot
- c) /image
- d) /media

Q.11 Which one provide command interpreter environment?

- a) Kernel
- b) Shell
- c) CPU

d) Hardware

Q.12 Who developed Linux?

- a) Sabeer Bhatia
- b) Bill Gates
- c) Linus Torvalds
- d) Linux Redhat

Q.13 Which of the following is not valid shell?

- a) bash
- b) tcsh
- c) zsh
- d) wsh

Q.14 Which among the following interacts directly with system hardware?

- a) Shell
- b) Commands
- c) Kernel
- d) Applications

Q.15 Applications communicate with kernel by using:

- a) System Calls
- b) C Programs
- c) Shell Script
- d) Shell

Q.16 All device files are stored in which directory?

- a) /etc
- b) /bin
- c) /dev
- d) /usr

Q.17 In Linux everything stored as a _____

- a) file

- b) directory
- c) executables
- d) pdf

Q.18 Which directory contains the root user's home directory?

- a) /home
- b) /root
- c) /sbin
- d) /usr

Q.19 If Linux is the only operating system on your computer, where should you tell LILO to place the boot information?

- a) MBR
- b) Partition boot block
- c) Floppy disk
- d) BIOS

Q.20 Which command will change a Red Hat system to GUI login mode?

- a) startx
- b) runlevel 5
- c) init 3
- d) init 5

Q.21 Which process always has the PID of 1?

- a) init
- b) kernel
- c) sync
- d) The first driver loaded

Q.22 Which of the following is not an operating system?

- a) Windows
- b) Linux
- c) Oracle
- d) DOS

Q.23 What else is a command interpreter called?

- a) prompt

- b) kernel
- c) shell
- d) command

Q.24 BIOS is used?

- a) By operating system
- b) By compiler
- c) By interpreter
- d) By application software

Q.25 Collection of files is called as a_____

- a) Directory
- b) Root
- c) Field
- d) Home

Q.26 The prompt of the root user is

- a) @
- b) #
- c) %
- d) \$

Q.27 Which indicate you to find the mode you are working?

- a) Indicator on
- b) Beep sound
- c) Status prompt
- d) Prompt

Q.28 ____ command clears the screen.

- a) clear
- b) cls
- c) clear all
- d) clean screen

Q.29 POST stands for_____

- a) Power On Standard Test
- b) Power On Self Test
- c) Power Off Standard Test

d) Power Off Self Test

Q.30 The MBR is made up of _____ bytes

- a) 225
- b) 625
- c) 1024
- d) 512

Q.31 GRUB stands for _____

- a) Graphical RAM Unified Bootloader
- b) GRand Unified Bootloader
- c) GRand Unified Booter
- d) GRand Unified Booting

Q.32 VFS stands for _____

- a) Virtual file system
- b) Virtual file set
- c) Virtual Folder system
- d) Virtual process system

Q.33 Runlevel 4 stands for _____

- a) halt the system
- b) reboot the system
- c) unused
- d) single user mode

Q.34 Where are system startup scripts stored on a Red Hat-based system?

- a) /etc
- b) /etc/rc.d/rc3.d
- c) /etc/init.d
- d) /etc/rc.d/init.d

Q.35 Which one of the following is a mount point for a temporarily mounted file system?

- a) /mnt directory

- b) /media directory
- c) /dev directory
- d) /boot directory

Q.36 Which of the below is not Linux file system?

- a) ext3
- b) xfs
- c) msdos
- d) jfs

Q.37 _____ command is used to show list of package files installed

- a) rpm -ql
- b) rpm -q
- c) rpm -ivh
- d) rpm -i

Q.38 For text based calculator use _____ command.

- a) calc
- b) bc
- c) cal
- d) expr

Q.39 In OSI network architecture the routing is performed by_____

- a) Data link
- b) Physical
- c) Network
- d) Session

Q.40 The default prompt symbol for the bash shell is _____ sign

- a) &
- b) \$

- c) ?
- d) #

Q.41 Run level _____ implies multiple user.

- a) 0
- b) 1
- c) 6
- d) 3

Q.42 _____ is a collection of application which is combined to make an OS.

- a) Service
- b) Distribution
- c) Linux
- d) File system

Q.43 GNOME desktop stands for _____

- a) GNU Network Object Model Environment
- b) GCC Network Object Model Environment
- c) GNU New Object Environment
- d) GCC New Object Environment

Q.44 _____ is not one of the Linux Distribution

- a) Red hat
- b) Fedora
- c) Ubuntu
- d) Microsoft windows

Q.45 Linux is a _____

- a) open source system
- b) open source software
- c) open server system
- d) open server software

Q.46 Linux is a _____

- a) Single User, Single tasking OS
- b) Single User, Multi-tasking OS

- c) Multi-User, Multi- tasking OS
- d) Single User

Q.47 The directory structure used in Linux file system is called

- a) Hierarchical directory
- b) Tree structured directory
- c) Directed acyclic graph
- d) Graph structured directory

Q.48 Which command is used to terminate a process?

- a) shutdown
- b) haltsys
- c) cancel
- d) kill

Q.49 What is a shell script?

- a) group of commands
- b) a file containing special symbols
- c) a file containing a series of commands
- d) group of functions

Q.50 Which shell offers a command history features

- a) C shell
- b) Visual shell
- c) Bourne shell
- d) Korn shell

Unit-II

Q.1 User id 0 is_____

- a) An innvalid user id
- b) The id of the root user
- c) The id of a user when the user's account is deleted
- d) local user id

Q.2 Which of the following combination of keys is used to exit from terminal?

- a) Ctrl+z
- b) Ctrl+t
- c) Ctrl+d
- d) Ctrl+e

Q.3 mv command can be used for_____

- a) renaming a file
- b) moving the file to different directory
- c) renaming and moving
- d) moving and creating

Q.4 What command is used to count the total number of lines, words, and characters contained in a file?

- a) countw
- b) wcount
- c) wc
- d) count p

Q.5 Hidden file can be views using_____

- a) ls -a
- b) ls -l
- c) ls -h
- d) ls -k

Q.6 Which of the following sign represent the user home directory?

- a) .
- b) /
- c) ..
- d) ~

Q.7 What command is used to remove files?

- a) dm
- b) rm
- c) delete
- d) erase

Q.8 How can you add Amit, a new user, to your system?

- a) useradd Amit
- b) add Amit
- c) user Amit
- d) create Amit

Q.9 What command is used to sort the lines of data in a file in alphabetical order?

- a) sort - r
- b) st
- c) sh
- d) sort

Q.10 What command is used to list contents of directories?

- a) tar
- b) dir
- c) lp
- d) ls

Q.11 Single dot (.) with cd refers to ____

- a) Change directory
- b) Created directory
- c) Current directory
- d) Parent directory

Q.12 Which of the following is called as the piping symbol?

- a) _
- b) |
- c) ~
- d) !

Q.13 Which command is used to display the operating system name

- a) os
- b) unix
- c) kernel
- d) uname

Q.14 Which option of ls command used to view file inode number

- a) -l
- b) -o
- c) -a
- d) -i

Q.15 Which of the following directory contains configuration files in Linux?

- a) /dev
- b) /etc
- c) /bin
- d) /root

Q.16 Which command is used to display the unix version?

- a) kernel
- b) uname -t
- c) uname -r
- d) uname -n

Q.17 Which command is used to view compressed text file contents?

- a) cat
- b) tac
- c) zcat
- d) type

Q.18 Which command in CLI mode of vi editor saves the file with save and quitting?

- a) :wq!

- b) :q!
- c) :x
- d) :w

Q.19 Command to create empty file in Linux is _____

- a) touch
- b) cat
- c) echo
- d) mkdir

Q.20 What is the name of file where groups are added?

- a) /etc/grp
- b) /etc/groups/
- c) /etc/group
- d) /usr/bin/group

Q.21 Which of the following command will create a softlink?

- a) \$ln -s test1 test1new
- b) \$ln -b test1 test1new
- c) \$ln test1 test1new
- d) \$ln -q test1 test1new

Q.22 Which is the correct syntax to display the calendar of September 2005?

- a) cal 9 2005
- b) calendar 2005
- c) 2005 cal
- d) 9 2005 calender

Q.23 Which command changes permissions of files or directories?

- a) chmod
- b) changemod
- c) chpermission
- d) usermod

Q.24 What does the pwd command do?

- a) It changes the password of a user
- b) It shows the current path where the user is
- c) It shows the passwd file
- d) It shows information about linux architecture

Q.25 Syntax of any Linux command is:

- a) command [options] [arguments]
- b) command options [arguments]
- c) command [options] arguments
- d) command options arguments

Q.26 How do you get help about the command “cp”?

- a) help cp
- b) man cp
- c) cd ?
- d) cd cp

Q.27 Which command changes a file’s group owner

- a) cgrp
- b) chgrp
- c) change
- d) group

Q.28 Which command is used to perform backup in unix?

- a) backup
- b) cpio
- c) zip
- d) gzip

Q.29 Which of the following commands will allow the user to search contents of a file for a particular pattern?

- a) touch
- b) grep
- c) find
- d) ls

Q.30 Executing the 'cd ..' command when at the root level causes

- a) Error message indicating the user can't access beyond the root level
- b) Behavior is linux-flavor dependent
- c) Results in changing to the 'home' directory
- d) Nothing happens

Q.31 Binary or executable files are:

- a) Regular files
- b) Device files
- c) Special files
- d) Directory files

Q32 The permission -rwxr-r- represented in octal expression will be

- a) 777
- b) 666
- c) 744
- d) 711

Q.33 Which shell is the default shell used on Linux systems?

- a) csh
- b) rsh
- c) bash
- d) tcsh

Q.34 Which command displays a listing of previously entered commands?

- a) commands
- b) review
- c) history
- d) export

Q.35 Which of the following represents read, write, and execute permissions for owner and read and execute for all others?

- a) 755
- b) 022
- c) 733
- d) 557

Q.36 Which option with usermod is used to change a user's default shell?

- a) -d
- b) -s
- c) -b
- d) -q

Q.37 Help for all commands is available at

- a) man command
- b) help command
- c) join command
- d) tput command

Q.38 Which of the option with the **rm** command removes including the subdirectories?

- a) -i
- b) -v
- c) -r
- d) -s

Q.39 Which command copies the contents of the source file after creating the destination file?

- a) mv
- b) cp
- c) cat
- d) rm

Q.40 How will you see the system date?

- a) \$ dd
- b) \$ dy
- c) \$ date
- d) \$ dt

Q.41 Which command is used to identify file type?

- a) type
- b) file
- c) finfo

d) info

Q.42 Which environment variable would be used to specify the location of files that you wish to run without specifying an absolute path?

- a) HOME
- b) PS1
- c) PATH
- d) TERM

Q.43 Which command allows users to view their group memberships?

- a) groupadd
- b) newgroup
- c) groups
- d) newgrp

Q.44 Which command sets up shorthand for command or command line?

- a) set
- b) alias
- c) new
- d) echo

Q.45 Which command can create environment variable?

- a) export
- b) set
- c) read
- d) fm

Q.46 To run the script, we should make it executable first by using _____

- a) chmod +x
- b) chmod +r
- c) chmod +w
- d) chmod +rwx

Q.47 Command to display in the format dd/mm/yy

- a) date '+%d/%m/%Y'
- b) date '+%d/%m/%y'
- c) date '+%m/%d/%y'
- d) date '+INDIA'

Q.48 Which command is used to sort the lines of data in a file in reverse order

- a) sort
- b) sh
- c) st
- d) sort -r

Q.49 Which command is used as an alternative to echo command?

- a) ls
- b) printf
- c) wc
- d) ps

Q.50 When we log in, the LINUX places us in a directory, called _____ directory

- a) home
- b) main
- c) parent
- d) current

Unit-III

Q.1 User passwords are stored in _____

- a) /root/password
- b) /etc/password
- c) /etc/passwd
- d) /root/passwd

Q.2 Which command will you use to see the available routes?

- a) show route
- b) route status
- c) netstat -r
- d) routepath

Q.3 Which one of the following is not true?

- a) in typical awk program, all input is read either from standard input or specified files
- b) awk language divides its input into records and fields
- c) awk reads an input record and the record is automatically separated by the interpreter into pieces called “fields”
- d) the number of fields need to be a constant

Q.4 What is the meaning of \$ sign in awk programming?

- a) the word following is the name of variable
- b) we are referring to a field or column in the current line
- c) \$ sign is used for comment
- d) used to row reading

Q.5 The command “awk {print \$1} san.txt” will

- a) print the first line of file san.txt
- b) print the first field of every line in san.txt
- c) generate syntax error
- d) print two field of file

Q.6 What is sed?

- a) a non-interactive stream editor
- b) an IDE
- c) a hex editor
- d) a text edifdoes

Q.7 Let a=5, b=6. Choose the proper command to perform multiplication?

- a) `expr $a * $b`
- b) `expr $a * $b`
- c) `$(a*b)`
- d) `$(a**b)`

Q.8 Which of the following commands can be used to copy files across systems?

- a) ssh
- b) telnet
- c) rsh
- d) ftp

Q.9 Which symbol is used to refer the contents of a variable?

- a) *
- b>) ""
- c) \$
- d) #

Q.10 Which type of access is granted to other users for the /etc/shadow file?

- a) Read
- b) Execute
- c) No access
- d) Write

Q.11 Which command is used to evaluate arithmetic expression?

- a) cat

- b) `expre`
- c) `expr`
- d) `lets`

Q.12 What are positional parameters?

- a) special variables for assigning arguments from the command line
- b) pattern matching parameters
- c) special variables for reading user input
- d) special variables and patterns

Q.13 How will you assign the value of variable `var2` to `var1`?

- a) `var1=var2`
- b) `$var1=$var2`
- c) `var1=$var2`
- d) `$var1=var2`

Q.14 Which symbol will be used with `grep` command to match the pattern `pat` at the beginning of a line?

- a) `^pat`
- b) `$pat`
- c) `pat$`
- d) `pat^`

Q.15 The first argument is read by the shell into the parameter ____

- a) `1$`
- b) `$3`
- c) `$$`
- d) `$1`

Q.16 Which of the following is used for storing the number of positional parameters?

- a) `$n`
- b) `$#`
- c) `$*`
- d) `$2`

Q.17 Which of the following operators are used for logical execution?

- a) ||
- b) &&
- c) %%
- d) && and ||

Q.18 To check more than two conditions, ____ is used with if-else statements.

- a) while
- b) for
- c) elif
- d) for

Q.19 The name of the script is stored in which special parameter?

- a) \$1
- b) \$0
- c) \$#
- d) \$*

Q.20 To know the exit status of a command, we can use _____

- a) \$\$
- b) \$*
- c) \$?
- d) \$-

Q.21 _____ responsible for ensuring that a user requesting access to the system is really the user with the account.

- a) Authentication
- b) Authorization
- c) Confidentiality
- d) Integrity

Q.22 _____ are network packet filters that are capable of blocking unwanted network traffic, while passing through allowed traffic.

- a) Firewall
- b) IDS
- c) Windows authentication
- d) Windows filter

Q.23 Sudo means _____

- a) Local user do
- b) Super user do
- c) Rich user do
- d) Supervisor do

Q.24 Data can be decrypted by user's _____ key

- a) Private
- b) Simple
- c) Multiple
- d) First

Q.25 SSH is implemented on linux system with _____

- a) OpenShell
- b) OpenSSH
- c) OnlySSH
- d) Shell

Q.26 HTTP stands for _____

- a) Hyper transfer protocol
- b) Higher transfer protocol
- c) Hypertext transfer protocol
- d) Higher text transfer protocol

Q.27 Every host in the network has an address called _____

- a) IP address
- b) IV address
- c) POP address
- d) ftp address

Q.28 DNS stands for _____

- a) Domain name system
- b) Distributed name system
- c) Device name system
- d) Document name system

Q.29 Which of the network command is used for checking the network and also to test connectivity between two nodes?

- a) arp
- b) ping
- c) telnet
- d) smtp

Q.30 _____ Command prints route that packets take to a network host.

- a) dig
- b) host
- c) traceroute
- d) path

Q.31 _____ command shows or sets system hostname

- a) host
- b) hostname
- c) name
- d) machine name

Q.32 Which expression use the value of the enclosed arithmetic expression?

- a) $\$()$
- b) $\$[]$
- c) $\$()$
- d) $\$\{ \}$

Q.33 How do you print the lines between 5 and 10 both inclusive?

- a) `cat filename | head | tail -6`
- b) `cat filename | tail -5 | head -10`
- c) `cat filename | head | tail -5`
- d) `cat filename | tail +5 | head`

Q.34 If a and b are two variables then the meaning of $a \ll = b$ is

- a) $a = a \ll b$
- b) $a = a < b$
- c) $b = a \ll b$
- d) $b = b \ll a$

Q.35 Which of these is NOT a valid in bash?

- a) `_` (double underscore)

- b) `_1var`(underscore 1 var)
- c) `_var_`(underscore var underscore)
- d) `some-var`(some hyphen var)

Q.36 What is the output of this program?

```
#!/bin/bash
var[1]=mcq_1
var[2]=mcq_2
var[3]=mcq_3
echo ${var[*]}
exit 0
```

- a) `mcq_3`
- b) `mcq_1 mcq_2 mcq_3`
- c) `mcq_1`
- d) `mcq_2`

Q.37 What is output of `cat <file1>> file2 | file3`

- a) file1 content will be appended to file2 and finally stored in file3
- b) file1 content will be appended to file2 and file3 will be ignored
- c) file2 and file3 will have same content
- d) syntax error

Q.38 For every successful login which script will be executed?

- a) `/etc/profile`
- b) `/etc/init`
- c) `/etc/inittab`
- d) `/etc/login`

Q.39 While executing a command a shell_____

- a) Executes it in the same process (as shell)
- b) From different process
- c) Creates a child shell to execute it
- d) Loads a special program to take care of the execution

Q.40 In the shell by default all variables are considered and stored as_____

- a) float
- b) string
- c) integer
- d) character

Q.41 Which command can be used to test various file attributes

- a) if
- b) type
- c) test
- d) file

Q.42 Which command reads user input from the terminal and assign this value to a variable name?

- a) get
- b) set
- c) read
- d) declare

Q.43 Which command concatenate the specified argument into a single command then execute the command?

- a) fc
- b) getopts
- c) eval
- d) exec

Q.44 What will be output of following command:

```
$echo "The process id is"$$$$
```

- a) The process id is \$\$
- b) The process id is \$\$\$\$
- c) The process id is
- d) The process id is \$\$\$

Q.45 Which statement resumes the next iteration of a for, while, select or until loop?

- a) continue
- b) command

- c) break
- d) complete

Q.46 Which command puts a script to sleep until a signal is received?

- a) break
- b) suspend
- c) sleep
- d) disown

Q.47 In shell scripting `?` specifies _____

- a) One or more character
- b) Two characters
- c) One character
- d) Zero or more character

Q.48 The statement `z=`expr 5/2`` would store which of the following values in `z`?

- a) 2
- b) 2.5
- c) 0
- d) 1

Q.49 Which command runs the shell built-in command 'command' with the given argument?

- a) builtin
- b) caller
- c) there is no command present for this purpose
- d) setup

Q.50 What is output of following code:

```
os=unix
echo 1.$os 2."$os" 3.$os' 4.$os
```

- a) 1.unix 2.unix 3.unix 4.unix
- b) 1.unix 2.unix 3.unix 4.\$os
- c) 1.unix 2.\$os 3.\$os 4.\$os
- d) 1.unix 2.unix 3.\$os 4.unix