**10 MCQ (1 Mark each)**

Q.1. Which of the following command is used to display the name of the operating system?

A) os

B) unix

C) kernel

D) uname

Q.2. Single user mode shell runs as

A) Admin user

B) Root user

C) Normal user

D) Log user

Q.3. To feed standard output of one command to standard input of another in a single shell session.

A) IO redirection can be used

B) Named pipes can be used

C) The pipe operator provided by the shell can be used

D) It can not be done

Q.4. Which one of the following is not a valid shell variable?

A) \_san

B) san\_2

C) \_san\_2

D) 2\_san

Q.5. In Bash Shell programming, fc stands for

A) find command

B) fix command

C) both find & fix command

D) none of the mentioned

Q.6. The ‘logout’ built in command is used to

A) shutdown the computer

B) logoff of the computer

C) logout the current user

D) to exit the current shell

Q.7. What is the default maximum number of processes that can exist in Linux?

A) 32768

B) 1024

C) 4096

D) unlimited

Q.8. To list the system processes, which of the following option is used with ps command?

A) -A

B) -a

C) –A and -e

D) -e

Q.9. What is the correct initialization of variables to the null strings?

A) x=

B) x=, x=’ ‘, x=” “

C) x=” “

D) x=’ ‘

Q.10. Shell scripting files are saved with a \_\_\_\_\_\_ extension.

A) .shell

B) .SHELL

C) .sh

D) All of the above

**5 MCQ (2 Marks each)**

Q.1. What will be the exit status of a linux command on failure of the command?

A) 1

B) 0

C) Any positive value

D) 2

Q.2. What is the return value ($?) of this code:

os = Unix

[$osName = UnixName] && exit 2

[${os}Name = UnixName] && exit 3

A) 0

B) 1

C) 2

D) 3

Q.3. What is the output of this program?

#!/bin/bash

san\_var="Sunday"

echo "$san\_var"

echo '$san\_var'

echo '"$san\_var"'

echo "'$san\_var'"

echo \$san\_var

exit 0

A) Sunday

$san\_var

“$san\_var”

‘Sunday’

$san\_var

B) Sunday

Sunday

“Sunday”

‘Sunday’

Sunday

C) program will generate an error message

D) program will print nothing

Q.4. What is the output of this program?

#!/bin/bash

a=10

b=$(( $a<0?10:$a<100 ))

echo $b

exit 0

A) 10

B) 20

C) 1

D) 0

Q.5. Which is the first default shell in Linux system?

A) Bourne

B) TENEX

C) C- Shell

D) None of the above

**4 Submissions (5 Marks each)**

Q.1. What types of operators are used in shell scripting? Enlist all the operators with example.

Q.2. Write a Menu-Driven shell script to perform a simple calculation according to user’s choice, which includes + for Addition, - for Subtraction, \* for Multiplication and / for Division with case statement.

**Example Input**

5

5

+

**Example Output**

Addition of 5 and 5 is 10

Solution:-

#!/bin/bash

echo “Enter two numbers:”

read num1

read num2

read action

case $action in

“+”)

echo “Addition of $num1 and $num2 is `expr $num1 + $num2`”;;

“-”)

echo “Subtraction of $num1 and $num2 is `expr $num1 - $num2`”;;

“\*”)

echo “Multiplication of $num1 and $num2 is `expr $num1 \\* $num2`”;;

“/”)

echo “Division of $num1 and $num2 is `expr $num1 / $num2`”;;

esac

Q.3. What is date command? Explain options of date command with example (Minimum 5 options).

Q.4. Write commands for following, (1 mark each)

a) see all the suspended jobs.

b) keep second commands from the above list of suspended jobs in running state in background.

c) bring fourth command to foreground and terminate it.

d) what ‘+’ and ‘-‘ sign represent in jobs.

e) bring second command to foreground with passing a string.