**10 MCQ (1 Mark each)**

Q.1 Which service is used to translate domain name to IP address?

A) MBR

B) DNS

C) NDS

D) All of the above

Q.2. The expression expr -9 % 2 evaluates to:

A) 0

B) 1

C) -1

D) 2

Q.3. The statement z = ‘expr 5 / 2’ would store which of the following values in z?

A) 0

B) 1

C) 2

D) 2.5

Q.4. Which expression use the value of the enclosed arithmetic expression?

A) $(())

B) $()

C) ${}

D) $[]

Q.5. If a and b are 2 variables then the meaning of a<<=b is

A) b = a << b

B) a = a << b

C) b = b << a

D) a = a << b

Q.6. Which command puts a script to sleep untill a signal is recieved?

A) sleep

B) suspend

C) disown

D) break

Q.7. Which command wait for the specified process to complete and return the exit status?

A) sleep

B) wait

C) delay

D) stop

Q.8. An invalid variable is \_\_\_\_.

A) \_user

B) -txtfile

C) us01

D) txt123

Q.9. To assign the value to the variables which symbol do we use?

A) $

B) =

C) &

D) @

Q.10. Bourne shell was developed in \_\_\_\_\_\_\_\_.

A) 1979

B) 1999

C) 1981

D) None of the above

**5 MCQ (2 Marks each)**

Q.1. Which of the following shell special variable holds the exit status of the most recently executed Linux command?

A) $?

B) ^

C) #

D) $

Q.2. What is the output of the following program?

x = 3; y = 5; z = 10;

if [( $x -eq 3 ) -a ( $y -eq 5 -o $z -eq 10 )]

then

echo $x

else

echo $y

fi

A) 1

B) 3

C) 5

D) Error

Q.3. Which one of the following statement is true about variables in shell?

A) variables do not require declaration before assigning value to them

B) variables are case sensitive

C) to extract the contents of a variable, we have to provide the variable a preceding $

D) all of the mentioned

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

#!/bin/bash

a=10

b=$(( $a<0&&$a<100 ))

echo $b

exit 0

A) 10

B) 0

C) 1

D) none of the mentioned

Q.5. C-shell is used from which year?

A) 1979

B) 1970

C) 1987

D) 1982

**4 Submissions (5 Marks each)**

Q.1. Write all the steps of shell script, from creating a shell script file till executing it.

Q.2. Write a script that will accept two numbers as input, and outputs the sum and product (as shown below).

Enter a number: 5

Enter another number: 2

Sum: 5 + 2 = 7

Product: 5 x 2 = 10

**Solution:-**

#!/bin/bash

echo -n "Enter a number : "

read n1

echo -n "Enter another number : "

read n2

let sum="$n1+$n2"

let pro="$n1\*$n2"

echo -e "Sum\t: $n1 + $n2 = $sum"

echo -e "Product\t: $n1 \* $n2 = $pro”

Q.3. Write a note on nice command with example.

Q. 4. Write a shell script for following, (5 marks) (Write all the commands starting from creation of a shell file till the execution of it.) (1 mark)

a) create a directory named college (1 mark)

b) create a directory named courses within college directory. (1 mark)

c) create 4 files named Engineering, MBA, Hotel management, Pharmacy within courses directory. (1mark)

d) Write data in particular files as mentioned below, (1 mark)

Engineering- CSE, Mech, EEE, ETE

MBA- HR, Finance

Pharmacy- B.Pharm, D.Pharm