**Shell Scripting Multiple Choice**

**And**

**Theory Question**

**1]** How can you find out how long the system has been running?

a. Command “uptime”

b. Command “time”

c. Command “datetime”

d. None

**Ans: a. Command “uptime”**

**2] How to get input from the terminal for shell script**?

a. 'input' command

**b. 'read' command**

c. 'echo' command

d. None

**Ans: b. ‘read’command**

**3] What is the use of “$?” sign in shell script**?

a. Print the name of the shell.

b. No. of arguments to a shell script.

**c. Check whether previous command is executed successfully or not**

d. None

**Ans: c. Check whether previous command is executed successfully or not**

**4] What are the redirect options to use for sending both standard output and standard error to the same location**?

a. 2 >&

b. &>

c. 2>&1

**d. Both b and c**

**Ans: d. Both b and c**

**5]** How to display all array indexes at once?

**a. echo ${!array[@]}**

b. echo ${array[\*]}

c. echo ${array[@]}

d. None

**Ans: a. echo ${!array[@]}**

**6]** What is the difference between $$ and $!?

a. $$ gives the last error code of the currently executing process whereas $! returns the exit code of the process that recently went into background.

b. $$ gives the no. of arguments of the currently executing process whereas $! holds the list of arguments of the process that recently went into background.

**c. $$ gives the process id of the currently executing process whereas $! shows the process id of the process that recently went into background.**

d. None

**Ans: c**

**7]** How to display all array elements at once?

**a. echo ${array[@]}**

b. echo ${array[\*]}

c. echo ${array}

d. echo array

**Ans: a. echo ${array[@]}**

**8]** How to remove array element with id 3?

a. remove array[2]

b. unset array[2]

c. remove array[1]

**d. unset array[3]**

**Ans: d. unset array[3]**

**9]** How to add new array element with id 99?

a. array[98]="New\_element"

b. set array[99]="New\_element"

**c. array[99]="New\_element"**

d. None

**Ans: c. array[99]="New\_element"**

**10]** How to display the first element of an array?

a. echo array[0]

**b. echo ${array[0]}**

c. echo array[1]

d. echo ${array[1]}

**Ans: b. echo ${array[0]}**

**Theory Question**

**1] Write a program to find prime number between 1 to 100 using shell scripting**

**2] Write a calculator program using switch case [Addition , Substraction , division ,and Multiplication].**

**3] Write a program to find the given number is palindrome or not using shell scripting.**

**4] Write a program to sort a array in asending order using shell scripting.**

**5] Write a program to find the number of words in a string using shell scripting.**

**6] Wite a program to reverse a array elements using shell scripting.**

**7] Write a program to delete repeating elements in array.**

**8] Write a program to implement your own cat command using shell scripting**

**9] Write a program to reverse a string using shell scripting**

**10] Write a program to find factorial of given number using shell scripting**