Text Areas : PlainText
Possible Answers :
75
Question Number : 241 Question Id : 640653351473 Question Type : SA Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 2
Question Label : Short Answer Question
The recall of the model with respect to class (Yes) is:
Hint: Enter your answer in %. If your answers is 12%, just enter 12
Response Type: Numeric
Evaluation Required For SA : Yes
Show Word Count : Yes
Answers Type: Equal

71 1

Text Areas : PlainText

Possible Answers:

90

System Commands

Section Id: 64065322144

Section Number: 14

Section type: Online

Mandatory or Optional : Mandatory

Number of Questions: 17

Number of Questions to be attempted: 17

Section Marks: 100

Display Number Panel: Yes

Group All Questions: No

Enable Mark as Answered Mark for Review and Yes

Clear Response :	
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	64065350446
Question Shuffling Allowed :	No
Question Number : 242 Question Id : 640	653351474 Question Type : MCQ Is Question
Mandatory : No Calculator : None Respo	nse Time : N.A Think Time : N.A Minimum Instruction
Time: 0	
Correct Marks : 0	
Question Label : Multiple Choice Question	
THIS IS QUESTION PAPER FOR THE SUBJECT "SYSTEM	// COMMANDS"
ARE YOU SURE YOU HAVE TO WRITE EXAM FOR THIS CROSS CHECK YOUR HALL TICKET TO CONFIRM THE S	
(IF IT IS NOT THE CORRECT SUBJECT, PLS CHECK THE REGISTERED BY YOU)	SECTION AT THE <u>TOP</u> FOR THE SUBJECTS
Options:	
6406531166494. ✓ Yes	
6406531166495. * No	
Sub-Section Number :	2
Sub-Section Id :	64065350447
Question Shuffling Allowed :	Yes
Question Number : 243 Question Id : 640	653351475 Question Type : SA Calculator : None
Response Time: N.A Think Time: N.A Mi	nimum Instruction Time : 0
Correct Marks : 6	
Ouestion Label : Short Answer Ouestion	

What is the output of the following bash script?

```
n=1234
counter=0
ans=0
while [ $n -gt 0 ]
do
    counter=$(( $n % 10 ))
    ans=$(( $ans * 10 + $counter ))
    n=$(( $n / 10 ))
done
echo $((ans+n))
```

Response Type: Numeric

Evaluation Required For SA: Yes

Show Word Count: Yes

Answers Type: Equal

Text Areas: PlainText

Possible Answers:

4321

Sub-Section Number: 3

Sub-Section Id: 64065350448

Question Shuffling Allowed : Yes

Question Number: 244 Question Id: 640653351482 Question Type: MCQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 4

Question Label: Multiple Choice Question

What is the expected output of the following command.

```
find . -type d -name '* *' | wc -1
```

Options:

6406531166526. A Gives the total number of directories in the current working directory.

6406531166527. ✓ Gives the total number of directories with space in their name in the current

working directory.

6406531166528. **Solution** Gives the total number of files with space in their name in the current working directory.

6406531166529. Gives the total number of directories with a dot in their name in the current working directory.

Question Number: 245 Question Id: 640653351488 Question Type: MCQ Is Question

Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time: 0

Correct Marks: 4

Question Label: Multiple Choice Question

What command can be used to search for a blank line in a file named file1?

Options:

6406531166549. * \$ grep \n file1

6406531166550. * \$ grep " " file1

6406531166551. ✔ \$ grep "^\$" file1

6406531166552. * \$ grep "\n" file1

Sub-Section Number: 4

Sub-Section Id: 64065350449

Question Shuffling Allowed : Yes

Question Number: 246 Question Id: 640653351476 Question Type: MCQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 5

Question Label: Multiple Choice Question

The below text is the contents of the file mycpuinfo.

```
processor : 0
vendor id : GenuineIntel
cpu family : 6
           : 126
model name : Intel(R) Core(TM) i5-1035G1 CPU @ 1.00GHz
          : 5
stepping
microcode : 0xb0
cpu MHz
             : 1200.000
cache size : 6144 KB
physical id : 0
siblings : 8
core id
            : 0
cpu cores : 4
apicid : 0
initial apicid : 0
fpu : yes
fpu_exception : yes
cpuid level : 27
WD
        : yes
flags
            : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36
clflush dts acpi mmx fxsr sse sse2 ss ht tm pbe syscall nx pdpe1gb rdtscp lm
constant_tsc art arch_perfmon pebs bts rep_good nopl xtopology nonstop_tsc cpuid
aperfmperf tsc known freq pni pclmulqdq dtes64 monitor ds cpl vmx est tm2 ssse3 sdbg
fma cx16 xtpr pdcm pcid sse4 1 sse4 2 x2apic movbe popcnt tsc deadline timer aes xsave
avx f16c rdrand lahf lm abm 3dnowprefetch cpuid fault epb invpcid single ssbd ibrs ibpb
stibp ibrs enhanced tpr shadow vnmi flexpriority ept vpid ept ad fsgsbase tsc adjust
sgx bmil avx2 smep bmi2 erms invpcid avx512f avx512dq rdseed adx smap avx512ifma
clflushopt intel pt avx512cd sha ni avx512bw avx512vl xsaveopt xsavec xgetbv1 xsaves
split lock detect dtherm ida arat pln pts hwp hwp notify hwp act window hwp epp
hwp pkg req avx512vbmi umip pku ospke avx512 vbmi2 gfni vaes vpclmulqdq avx512 vnni
avx512_bitalg avx512_vpopcntdq rdpid sgx_lc fsrm md_clear flush_lld arch_capabilities
vmx flags : vnmi preemption_timer posted_intr invvpid ept_x_only ept_ad ept_1gb
flexpriority apicv tsc_offset vtpr mtf vapic ept vpid unrestricted_guest vapic_reg vid
ple pml ept_mode_based_exec tsc_scaling
          : spectre v1 spectre v2 spec store bypass swapgs itlb multihit srbds
bugs
mmio stale data
bogomips : 2380.80
clflush size : 64
cache alignment : 64
address sizes : 39 bits physical, 48 bits virtual
power management:
```

Select the command that will print the number of CPU cores on the system. The number of CPU cores is given in the text as a value to the key "cpu cores". Thus, your output should be "4".

Note: Use of grep command's option:

```
-o, --only-matching

Print only the matched (non-empty) parts of a matching

line, with each such part on a separate output line.
```

Options:

```
grep cpu mycpuinfo

6406531166497. **

grep -o "cpu cores" mycpuinfo

6406531166498. **
```

```
grep "cpu cores" mycpuinfo | egrep -o "[[:digit:]]+"

6406531166499. 

grep -o "cpu cores" mycpuinfo | egrep -o "[[:digit:]]+"

6406531166500. 

### Grep -o "cpu cores" mycpuinfo | egrep -o "[[:digit:]]+"
```

Question Number: 247 Question Id: 640653351477 Question Type: MCQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 5

Question Label : Multiple Choice Question

What is the output of the following script if the input to stdin is 45.53?

```
read var

function operate()
{
  temp=$1
  temp=${temp%.*}
  echo $temp
}

echo $( operate $var )
```

Options:

```
6406531166501. * 0
6406531166502. * 53
6406531166503. * 45
6406531166504. * 1
6406531166505. * 45.53
```

Question Number: 248 Question Id: 640653351479 Question Type: MCQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 5

Question Label: Multiple Choice Question

```
sed -n '/[[:digit:]]\{3\}/ p' myfile
```

What does the above command do?

Note: Use of sed command option:

```
-n, --quiet, --silent suppress automatic printing of pattern space, i.e. print only the matched lines.
```

Options:

6406531166512. * Prints the line having only three digits.

6406531166513. * Prints the line having at least three digits.

6406531166514. ✓ Prints the line having three consecutive digits.

6406531166515. * Prints the line having at most two consecutive digits.

Question Number: 249 Question Id: 640653351494 Question Type: MCQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 5

Question Label: Multiple Choice Question

When the command 1s -1 is run on the current directory, the output obtained is

```
-rw-r--r-- 1 user group 0 Nov 30 11:08 rand1.txt
-rw-r--r-- 1 user group 0 Nov 29 11:08 rand2.txt
-rw-r--r-- 1 user group 0 Nov 29 11:08 rand3.md
-rw-r--r-- 1 user group 0 Nov 28 11:08 rand4.awk
-rwxr-xr-x 1 user group 0 Nov 10 14:03 script.sh
-rwxr-xr-x 1 user group 1 Nov 30 20:44 test.sh
```

What is the correct output format for this bash script?

```
for line in `ls`; do
         details=`ls -l $line`
         echo $line: ${details:4:6}
done
```

Options:

```
rand1.txt: {details:4:6}
rand2.txt: {details:4:6}
rand3.txt: {details:4:6}
rand4.txt: {details:4:6}
script.sh: {details:4:6}
test.sh: {details:4:6}
```

6406531166575. **

```
rand1.txt: r-
rand2.txt: r-
rand3.txt: r-
rand4.txt: r-
script.sh: r-
test.sh: r-
```

6406531166576. **

```
rand1.txt: -r
rand2.txt: -r
rand3.txt: -r
rand4.txt: -r
script.sh: xr
test.sh: xr
```

6406531166577.

```
rand1.txt: r--r--
rand2.txt: r--r--
rand3.txt: r--r--
rand4.txt: r--r--
script.sh: r-xr-x
test.sh: r-xr-x
```

6406531166578.

```
rand1.txt: -r--r-
rand2.txt: -r--r-
rand3.txt: -r--r-
rand4.txt: -r--r-
script.sh: xr-xr-
test.sh: xr-xr-
```

6406531166579. **

Sub-Section Id: 64065350450

Question Shuffling Allowed: Yes

Question Number: 250 Question Id: 640653351480 Question Type: MCQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 6

Question Label: Multiple Choice Question

What will the below command print?

```
awk 'arr[$0] != 1 {arr[$0]++; print;}' myfile
```

Options:

6406531166516. Second occurrences of duplicate lines.

6406531166517. * Distinct lines in the alphabetically sorted order.

6406531166518. ✓ Distinct lines in the order of first occurrence.

6406531166519. * The lines that are present more than once.

Question Number: 251 Question Id: 640653351483 Question Type: MCQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 6

Question Label: Multiple Choice Question

Here is a part of information from AWK manual,

```
gsub(r, s [, t]) For each substring matching the regular expression r in the string t, substitute the string s, and return the number of substitutions. If t is not supplied, use $0. An & in the replacement text is replaced with the text that was actually matched. Use \& to get a literal &. (This must be typed as "\\&";
```

The contents of the file myfile are given below

```
Ram
Laila
Ahmed
Ragav
Peter
```

What will be the output after running the below command?

```
awk '{
    gsub(/.*/, NR":&");
    print $0;
}' myfile
```

Options:

```
1:Ram
2:Laila
3:Ahmed
4:Ragav
5:Peter
```

```
NR:Ram
NR:Laila
NR:Ahmed
NR:Ragav
NR:Peter
```

6406531166531. **

1: 2: 3: 4: 5:

> 1:& 2:& 3:& 4:& 5:&

6406531166533. **

Sub-Section Number: 6

Sub-Section Id: 64065350451

Question Shuffling Allowed : Yes

Question Number: 252 Question Id: 640653351478 Question Type: MSQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 7

Question Label: Multiple Select Question

Consider a regular list as shown in the sample input, that is stored in a single line in the file mylist.

Select the sed script to pretty print this list such that in the output the first and the last line have the starting and the ending brackets, and the elements of the list are printed between the first and the last lines, one element on each line indented by a tab. The elements should be printed in the same order from top to bottom as they appear in the list from left to right.

Note: The tab and newline characters are specified by \t and \n respectively.

Sample Input

```
[1,2,3,4]
```

Sample Output

```
[
    1,
    2,
    3,
    4
]
```

Options:

```
sed 's/\[/\[\n\t/g' mylist | sed 's/\]/\n]/' | sed 's/,/,\n\t/g'
```

```
sed 's/\[/\[\t\n/g' mylist |
sed 's/\]/\n]/' |
sed '/^[[:blank:]]/ s/,/,\t\n/'
```

6406531166507. **

```
sed 's/\[/\[\n\t/g' mylist |
sed 's/\]/\n]/' |
sed 's/\]/\n]/' |
sed '/^[[:blank:]]/ s/,/,\n\t/g'
```

sed 's/\[/\[\n\t/g' mylist |
sed 's/\]/\n]/' |
sed '/^[[:blank:]]/ s/,/,\n\t/'

```
6406531166509. **
```

```
sed 's/\[/\[\t\n/g' mylist |
sed 's/\]/\n]/' |
sed 's/\[/\[\t\n/g' mylist |
sed 's/\[/\[\t\n/g' mylist |
sed 's/\[/\[\t\n/g' mylist |
sed 's/\]/\n]/' |
sed 's/\]/\n]/' |
sed 's/\,/,\t\n/g'
```

Sub-Section Number: 7

Sub-Section Id: 64065350452

Question Shuffling Allowed : Yes

Question Number: 253 Question Id: 640653351481 Question Type: MSQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 6

Question Label: Multiple Select Question

Select all the commands that prints the from line 4 to line 7 of file myfile (line 4 and 7 incluuded).

Assume that the myfile contains at least 7 lines.

Options:

```
head -7 myfile | tail -4

6406531166520. 

tail -4 myfile | tail -7

6406531166521. 

sed -n '4,7 p' myfile
```

6406531166523. **

```
awk 'NR >= 4 && NR <= 7 {print;}' myfile

6406531166524. ✓

awk '{if(NR>=4 && NR <=7){print;}}' myfile
```

Question Number: 254 Question Id: 640653351487 Question Type: MSQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 6

sed -n '4-7 p' myfile

Question Label: Multiple Select Question

Consider a file /home/user/script that exists currently on the system. Below commands are run to create links.

```
mkdir /home/user/links/
ln /home/user/script /home/user/links/script_link
ln /home/user/links/script_link /home/user/links/script_link_link
```

Which of the following statements are true?

Options:

6406531166544.

The link <code>script_link</code> will be accessible even if it is moved to different directory within the file system.

6406531166545. ✓ Files script_link and script will have the same inode number.

If we create a copy of the file script, the copy will also be linked automatically from the file 6406531166546. * script_link.

6406531166547. * If the file script_link is deleted, the file script_link_link will be inaccessible.

Question Number: 255 Question Id: 640653351489 Question Type: MSQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 6

Question Label: Multiple Select Question

The following bash script performs some operation. This script is run with some command line arguments. The command line argument values contains only alphanumeric characters.

```
#!bin/bash
args=0
for i in "$@"; do
   args=$((args+1))
done;
echo $args
```

Which of the following bash scripts is an will give the same output as the above script?

Options:

```
#!bin/bash
echo $$

6406531166553. **

#!bin/bash
echo $#

6406531166554. *

#!bin/bash
echo $#

6406531166555. *

6406531166556. *

6406531166556. *
```

```
#!bin/bash
echo $0 | wc -w
```

Question Number: 256 Question Id: 640653351490 Question Type: MSQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 6

Question Label: Multiple Select Question

Which of the following commands will print the lines that do not start with #, ' or //.

Hint: grep / egrep command option use:

```
-v, --invert-match

Invert the sense of matching, to select non-matching lines.
```

Options:

```
6406531166557. ** egrep -v "^#|^'|^\\/" code.txt

6406531166558. ** grep -v "^#\|^'\|^\\/" code.txt

6406531166559. ** egrep -v "^#|^'|^\\/" code.txt

6406531166560. ** grep -v "^#\|^'\|^\\/" code.txt

6406531166561. ** egrep -v "^#\|^'\|^\\" code.txt

6406531166562. ** grep -v "^#\|^'\|^\\" code.txt
```

Sub-Section Number: 8

Sub-Section Id: 64065350453

Question Shuffling Allowed: No

Question Id: 640653351484 Question Type: COMPREHENSION Sub Question Shuffling

Allowed: No Group Comprehension Questions: No Calculator: None Response Time: N.A.

Think Time: N.A Minimum Instruction Time: 0

Question Numbers: (257 to 258)

Question Label: Comprehension

Consider the AWK script and answer the given subquestions

```
BEGIN {
   FS=","
    OFS=":"
}
{
    sum = 0
    for (i=1; i<=NF; i++) {
        if ($i - /^[-+]?[[:digit:]]+\.?[[:digit:]]*$/) {
            sum += Si
        }
        else {
            print "Invalid data"
            exit 1
        }
    print sum
}
```

Sub questions

Question Number: 257 Question Id: 640653351485 Question Type: MSQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 4

Question Label: Multiple Select Question

Select all the correct statement(s) with respect to the given AWK script.

Options:

6406531166534. The fields in the input to the script are comma(,) separated.

```
6406531166535. ★ The number of field can be at most 5.

6406531166536. ✔ If any of the field values is .123 then Invalid data will be printed.

6406531166537. ✔ If any of the field values is +-1.123 then Invalid data will be printed.

6406531166538. ✔ if any of the fields contain an alphabet then Invalid data will be printed.

6406531166539. ★ The fields in the input to the script are colon(:) separated.
```

Question Number: 258 Question Id: 640653351486 Question Type: MCQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 5

Question Label : Multiple Choice Question

Select the output of the AWK script on the input given below.

```
1,2,3

1.1,2.1,3.1

-1.1,2.1,3.1

+1.1,2.1,3.1

a,b,2

.1,89,1
```

Options:

```
6406531166540. **

6
6.3
4.1
6.3
Invalid data
```

6
6.3
4.1
6.3
2
Invalid data

6406531166542. **

6 6.3 4.1 6.3 2

6406531166543. **

Sub-Section Number: 9

Sub-Section Id: 64065350454

Question Shuffling Allowed: No

Question Id: 640653351491 Question Type: COMPREHENSION Sub Question Shuffling

Allowed: No Group Comprehension Questions: No Calculator: None Response Time: N.A

Think Time: N.A Minimum Instruction Time: 0

Question Numbers: (259 to 260)

Question Label: Comprehension

Consider a bash script named runAll.sh written for some purpose located in the current working directory.

Note that in the current working directory:

- The scripts are named with extension .sh and no other files or directory use this extension. But the file/directory names may contain the string sh in their name.
- There can be spaces/tabs in the files/directory names in the current working directory.
- Some of the bash scripts(including runAll.sh) may not have execute permissions set on them.

The options are same in the subquestions, the answers are different based on the intended purpose.

Based on the above data, answer the given subquestions

Sub questions

Question Number: 259 Question Id: 640653351492 Question Type: MSQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 8

Question Label: Multiple Select Question

Purpose of runAll.sh - to execute all the bash scripts in the current working directory only once (excluding runAll.sh).

Select the option(s) below which has the correct script runAll.sh along with the command to run this script successfully always as intended.

Options:

6406531166563.

runAll.sh

```
pat="\.sh$"
for name in *; do
    if [[ $name =- $pat ]]; then
        bash "$name"
    fi
done
```

Command(s) to run the script

```
$ bash runAll.sh
```

runAll.sh

Command(s) to run the script

```
6406531166564. *
```

```
$ bash runAll.sh
```

runAll.sh

Command(s) to run the script

```
$ bash runAll.sh
```

6406531166565. **

```
6406531166566.
```

runAll.sh

Command(s) to run the script

```
$ chmod u+x runAll.sh
$ ./runAll.sh
```

runAll.sh

```
for name in ./*.sh; do
    if [ "./runAll.sh" != $name ]; then
        bash "$name"
    fi
done
```

Command(s) to run the script

```
$ ./runAll.sh
```

6406531166567. 🛎

runAll.sh

```
for name in *.sh; do
    if [ runAll.sh != "$name" ]; then
        bash "$name"
    fi
done
```

Command(s) to run the script

```
$ bash runAll.sh
```

Question Number: 260 Question Id: 640653351493 Question Type: MCQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 6

Question Label: Multiple Choice Question

Purpose of runAll.sh - to execute all the bash scripts(excluding runAll.sh) in the current working directory only twice, irrespective of the number of times runAll.sh is executed.

Select the option(s) below which has the correct script runAll.sh along with the command to run this script successfully always as intended.

Options:

runAll.sh

```
pat="\.sh$"
for name in *; do
    if [[ $name =- $pat ]]; then
        bash "$name"
    fi
done
```

Command(s) to run the script

```
$ bash runAll.sh
```

6406531166569.

runAll.sh

Command(s) to run the script

```
$ bash runAll.sh
```

runAll.sh

Command(s) to run the script

```
$ bash runAll.sh
```

6406531166571.

runAll.sh

Command(s) to run the script

```
$ chmod u+x runAll.sh
$ ./runAll.sh
```

6406531166572. **

runAll.sh

```
for name in *.sh; do
    if [ runAll.sh != $name ]; then
        bash "$name"
    fi
done
```

Command(s) to run the script

```
$ chmod u+x runAll.sh
$ ./runAll.sh
```

6406531166573. **

6406531166574.

runAll.sh

```
for name in *.sh; do
    if [ runAll.sh != "$name" ]; then
        bash "$name"
    fi
done
```

Command(s) to run the script

```
$ bash runAll.sh
```