Is Section Default?: null

Question Number: 230 Question Id: 640653611150 Question Type: MCQ Is Question

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

Time: 0

Correct Marks: 2

Question Label: Multiple Choice Question

An increase in Monisha's income decreases her demand for Glucon-D. Then, for Monisha, Glucon-

D is

Options:

6406532041078. * A complement to any good

6406532041079. * A normal good

6406532041080. ✓ An inferior good

6406532041081. * A substitute to any good

System Commands

Section Id: 64065341312

Section Number: 9

Section type: Online

Mandatory or Optional: Mandatory

Number of Questions: 15

Number of Questions to be attempted: 15

Section Marks: 100

Display Number Panel: Yes

Section Negative Marks: 0

Group All Questions: No

Enable Mark as Answered Mark for Review and

Clear Response:

Yes

Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	64065388070
Question Shuffling Allowed :	No
Is Section Default? :	null
Question Number : 231 Question Id : 640	653611151 Question Type : MCQ Is Question
Mandatory : No Calculator : None Respon	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	CT "DIPLOMA LEVEL : SYSTEM COMMANDS
(COMPUTER BASED EXAM)"	
ARE YOU SURE YOU HAVE TO WRITE EXAM	л FOR THIS SUBJECT?
CROSS CHECK YOUR HALL TICKET TO CON	IFIRM THE SUBJECTS TO BE WRITTEN.
(IF IT IS NOT THE CORRECT SUBJECT, PLS	CHECK THE SECTION AT THE <u>TOP</u> FOR THE SUBJECTS
REGISTERED BY YOU)	
Options :	
6406532041082. ✓ YES	
6406532041083. * NO	
Sub-Section Number :	2
Sub-Section Id :	64065388071
Question Shuffling Allowed :	Yes
Is Section Default? :	null
Question Number : 222 Question Id : 640	653611153 Question Type : MCQ Is Question
Ancorion Hamber . For Ancorion In . 040	obbottion question type time as question

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

Correct Marks: 6

Time: 0

Question Label: Multiple Choice Question

From man bash,

Process Substitution

Process substitution allows a process's input or output to be referred to using a filename. It takes the form of <(list) or >(list). The process list is run asynchronously, and its input or output appears as a filename. This filename is passed as an argument to the current command as the result of the expansion. If the >(list) form is used, writing to the file will provide input for list. If the <(list) form is used, the file passed as an argument should be read to obtain the output of list. Process substitution is supported on systems that support named pipes (FIFOs) or the /dev/fd method of naming open files.

When available, process substitution is performed simultaneously with parameter and variable expansion, command substitution, and arithmetic expansion.

Example:

```
$ seq 2 5
2
3
4
5
$ diff <(seq 1 3) <(seq 2 5)
1d0
< 1
3a3,4
> 4
> 5
```

What does the command echo <(seq 10) output represent?

Options:

6406532041088. * The standard output from the command seq 10

6406532041090. * A directory

6406532041091. * Nothing will be printed

Question Number: 233 Question Id: 640653611156 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

Which one of the following commands replaces only the second occurrence of pattern "Alice" with "Rabbit" in each line of the entire file?

Options:

6406532041097. ✓ sed 's/Alice/Rabbit/2' wonderland.txt

6406532041098. * sed 's/Alice/Rabbit/2g' wonderland.txt

6406532041099. * sed '2 s/Alice/Rabbit/' wonderland.txt

6406532041100. * sed '1,2 s/Alice/Rabbit' wonderland.txt

Question Number: 234 Question Id: 640653611167 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

Following entry is made to a crontab to run a script that will perform the backup. When is the script /home/Garima/PC management.sh scheduled to get executed?

```
5 2 * * 0 /home/Garima/PC_management.sh
```

Hint: Below is the description of the sequence in the cron job command. It tells at what date/time periodically the job needs to be executed.

Options:

6406532041133. ***** Every Sunday at 05:02 am

6406532041134. * Every Sunday at 05:03 am

6406532041135. * Every Sunday at 02:03 am

Sub-Section Number: 3

Sub-Section Id: 64065388072

Question Shuffling Allowed : Yes

Is Section Default?: null

Question Number: 235 Question Id: 640653611160 Question Type: MCQ Is Question

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

Time: 0

Correct Marks:7

Question Label: Multiple Choice Question

The tab-separated data file pdata.txt provided for cleanup showed every fourth and fifth line is a part of one line (the first merge is the first and the second line) (see the following examples in the hint). Choose the correct commands from the following options, which can merge every fourth and fifth (1-2, 5-6, 9-10, 13-14, etc...) line into one line to clean up the data file.

Hint:

Use the following information.

```
$ cat pdata.txt
Line1
Line2
Line3
Line4
Line5
Line6
Line7
Line8
Line9
Line10
Line11
Line12
Line13
Line14
$ sed 'N;s/\n/ /' pdata.txt
Line1 Line2
Line3 Line4
Line5
      Line6
Line7 Line8
Line9
       Line10
Line11 Line12
Line13 Line14
$ sed 'N;N;s/\n/ /' pdata.txt
Line1
       Line2
Line3
Line4
       Line5
line6
Line7
       Line8
Line9
Line10 Line11
line12
Line13 Line14
Line15
```

6406532041113. * sed 'N;N;N;s/\n/ /' pdata.txt

6406532041114. * sed -i 'N;N;N;N;S/\n/ /' pdata.txt

6406532041115. ✓ sed -i 'N;N;N;s/\n/\t/' pdata.txt

6406532041116. * sed -i 'N;N;N;N;S/\n/\t/' pdata.txt

Sub-Section Number: 4

Sub-Section Id: 64065388073

Question Shuffling Allowed : Yes

Is Section Default?: null

Question Number: 236 Question Id: 640653611155 Question Type: MCQ Is Question

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

Time: 0

Correct Marks: 8

Question Label: Multiple Choice Question

A file contains data collected starting from 4th April 2004. The data is collected on the 4th, 14th and 24th of April, May and June since then. The text file, however, does not contain the date information. Now it is necessary to add a column to this text file with the date format 4 April 2004. Identify which of the following command (using brace expansion) will create a column to an empty file with the desired format from 4 April, 2004 to 24 December, 2010 is sorted as per the years.

Hint:

Use the following information.

```
$ echo {1..4}{b..d}
1b 1c 1d 2b 2c 2d 3b 3c 3d 4b 4c 4d
$ echo {1..4}";"{b..d}
1;b 1;c 1;d 2;b 2;c 2;d 3;b 3;c 3;d 4;b 4;c 4;d
$ echo 10 20
10 20
$ echo 10 20| tr ' ' '\n'
10
20
```

Options:

```
echo {April,May,June}";"{4..30..10}","{2004..2010}|

tr ' ' '\n'|

tr ',' ' '|

sort -s -k2|

tr ' ','|

tr ';' ' >date.txt
```

6406532041093.

```
echo {April,May,June}","{4..30..10}","{2004..2010}|

tr ' ' '\n'|

tr ',' ' '|

sort -s -k3|

tr ' ',' >date.txt
```

6406532041094. **

```
echo {April,May,June}" "{4..30..10}","{2004..2010}|

tr ' ' '\n'|

tr ',' ' '|

sort -s -k2|

tr ' ',' >date.txt
```

```
echo {April,May,June}{4..30..10}","{2004..2010}|

tr ' ' '\n'|

tr ',' ' '|

sort -s -k2|

tr ' ','|

tr ';' ' >date.txt
```

Question Number: 237 Question Id: 640653611166 Question Type: MCQ Is Question

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

Time: 0

Correct Marks: 8

Question Label: Multiple Choice Question

Choose the correct sed command from the options which will replace all the three-character month names with the corresponding numbers.

Note: Only the month should be changed

Question Number: 238 Question Id: 640653611152 Question Type: MSQ Is Question

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

null

Time: 0

Is Section Default?:

Correct Marks: 6 Max. Selectable Options: 0

Question Label: Multiple Select Question

A command myproject-auth takes the password as an argument. Select the most appropriate way(s) which will ensure its secrecy while entering it into the Linux command line.

Note: The command line usage is myproject-auth -u <username> -p <password>

```
$ myproject-auth -u pankaj -p mysecretpassword

$ PASSWORD=mysecretpassword
$ myproject-auth -u pankaj -p $PASSWORD

6406532041085. **
```

```
$ read -r PASSWORD
$ myproject-auth -u pankaj -p $PASSWORD

6406532041087. 
$ myproject-auth -u pankaj -p $(cat)
```

Question Number: 239 Question Id: 640653611157 Question Type: MSQ Is Question

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

Time: 0

Correct Marks: 6 Max. Selectable Options: 0

Question Label: Multiple Select Question

Which of the following command(s) from the options will produce the output as shown below?

```
line1
line2
line3
line4
```

Hint:

```
echo: echo [-neE] [arg ...]
   Write arguments to the standard output.
   Display the ARGs, separated by a single space character and followed by a
   newline, on the standard output.
   Options:
    -n
             do not append a newline
              enable interpretation of the following backslash escapes
    - e
    - E
              explicitly suppress interpretation of backslash escapes
   `echo' interprets the following backslash-escaped characters:
     \a
              alert (bell)
     \b
             backspace
             suppress further output
    10
    \e
             escape character
    \E
            escape character
    \f
            form feed
    \n
            new line
    \r
             carriage return
            horizontal tab
     \t
              vertical tab
              backslash
     11
             the character whose ASCII code is NNN (octal). NNN can be
     \0nnn
              0 to 3 octal digits
     \xHH
             the eight-bit character whose value is HH (hexadecimal). HH
              can be one or two hex digits
   Exit Status:
   Returns success unless a write error occurs.
```

Echo examples:

```
$echo "a\tb" #tab is eight character long
a          b
$echo -e "ii\bjj"
ijj
$echo "a\vb"
a
          b
$echo "a\nb"
a
b
```

```
6406532041101. * echo -e -n "line1\n\t\b\bline2\nline3\n\t\bline4\n"
```

```
6406532041102. * echo -e -n "line1\n\t\b\bline2\nline3\n\t\b\bline4\n"
```

Question Number: 240 Question Id: 640653611158 Question Type: MSQ Is Question

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

Time: 0

Correct Marks: 6 Max. Selectable Options: 0

Question Label: Multiple Select Question

Which of the following regular expressions are the **most appropriate** to capture the GSTIN numbers from a file?

Note:

- A GSTIN (Goods and Services Tax Identification Number) is structured with a consistent pattern (12ABCTY1234D1Z1) comprising 15 characters, encompassing a combination of alphabetic letters (all capital) and numerical digits.
- The first two characters (12) represent the state code of the business entity's registration.
- The following ten characters are typically derived from the taxpayer's PAN (Permanent Account Number)(ABCTY1234).
- The next character is the entity number which is followed by the default character (Z).
- Lastly, the 15th character is a checksum digit.
- A PAN (Permanent Account Number) typically follows the format of ABCTY1234D.
- The first three characters, "ABC", in this case, form an alphabetical series ranging from AAA to ZZZ.
- The fourth character, like 'T', indicates the status of the PAN holder, where 'T' stands for Trust, 'F' for Firm, 'H' for HUF, 'P' for Individual, and 'C' for Company.
- The fifth character, for instance, 'Y', represents the first letter of the PAN holder's last name
- The subsequent four characters are sequential digits from 0001 to 9999.
- The tenth character, 'D', functions as an alphabetic check digit, ranging from A to Z.

Assume a Basic Regular Expression Engine (BRE)

Options:

Question Number: 241 Question Id: 640653611161 Question Type: MSQ Is Question

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

Time: 0

Correct Marks: 6 Max. Selectable Options: 0

Question Label: Multiple Select Question

The following text shows a set of questions and their answers. Identify which questionanswer pair among the following needs to be corrected. Use the "None of these" option if all statements are correct

- 1. What is the purpose of the "kill" command in Linux?
 - Answer: The "kill" command in Linux sends signals to processes. It can terminate a process, send specific signals for process control, or even request a process to reload its configuration.
- 2. What is the significance of the process ID (PID) in Linux?
 - Answer: The process ID (PID) is a unique identifier assigned to each running process in Linux. It tracks and manages processes, allowing the operating system to interact with and control individual processes.
- 3. How can you check the resource utilization of a specific process in Linux?
 - Answer: You can check the resource utilization of a specific process in Linux using the "top" command. The "top" command provides real-time information about system processes, including CPU usage, memory consumption, and other resource statistics.
- 4. How can you monitor the system performance and resource usage of all processes in Linux?
 - Answer: You can monitor the system performance and resource usage of all
 processes in Linux using tools like "top", "htop", or "ps aux". These commands
 provide detailed information about CPU usage, memory consumption, and other
 system metrics for all running processes.

Options:

6406532041117. ***** 1
6406532041118. ***** 2
6406532041119. ***** 3
6406532041120. ***** 4
6406532041121. ✓ None of these **Sub-Section Number**:

Sub-Section Id: 64065388075

6

Question Shuffling Allowed: Yes

Is Section Default?: null

Question Number: 242 Question Id: 640653611159 Question Type: MSQ Is Question

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

Time: 0

Correct Marks: 7 Max. Selectable Options: 0

Question Label: Multiple Select Question

Which of the following commands from the options will count the number of words starting with the letter 'c' from the following text?

Hint:

Relevent grep help text

Usage: grep [OPTION]... PATTERN [FILE]...

Search for PATTERN in each FILE.

Example: grep -i 'hello world' menu.h main.c

```
-w, --word-regexp force PATTERN to match only whole words
...
-o, --only-matching show only the part of a line matching PATTERN
...
-c, --count print only a count of selected lines per FILE
```

```
$ cat tongue_twisters.txt
If you must cross a coarse, cross cow across a crowded cow crossing, cross the
cross, coarse cow across the crowded cow crossing carefully.
$ wc -l tongue_twisters.txt
1
```

```
6406532041112. * sed -n 's/\b[cC][a-zA-Z]*\b/&/gp' tongue_twisters.txt|wc -w
```

Question Number: 243 Question Id: 640653611162 Question Type: MSQ Is Question

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

Time: 0

Correct Marks: 7 Max. Selectable Options: 0

Question Label: Multiple Select Question

Following Script is executed on a text file. Choose the correct statement(s) from the options.

Options:

```
6406532041122. * ELE is an associative array.
```

6406532041123. V ELE is an indexed array.

At the end of the execution of the bash script on a text file, the last sentence is printed 6406532041124. * first, followed by the next-to-last sentence till the first sentence becomes last.

At the end of the execution of the bash script on a text file, the last word is printed first, followed by the next-to-last word till the first word becomes the last.

Sub-Section Number: 7

Sub-Section Id: 64065388076

Question Shuffling Allowed : Yes

Is Section Default?: null

Question Number : 244 Question Id : 640653611154 Question Type : SA Calculator : None

Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

Correct Marks:7

Question Label: Short Answer Question

```
#!/bin/bash

directory="$1"
tarball_name="$2"
tar -cvf "$tarball_name.tar" "$directory"
```

```
$ tar --help
Usage: tar [OPTION...] [FILE]...
GNU 'tar' saves many files together into a single tape or disk archive, and can
restore individual files from the archive.
Examples:
 tar -cf archive.tar foo bar # Create archive.tar from files foo and bar.
                          # List all files in archive.tar verbosely.
 tar -tvf archive.tar
 tar -xf archive.tar # Extract all files from archive.tar.
Main operation mode:
 -A, --catenate, --concatenate append tar files to an archive
 -c, --create
                         create a new archive
 -x, --extract, --get extract files from an archive
Device selection and switching:
     --force-local archive file is local even if it has a colon
 -f, --file=ARCHIVE
                         use archive file or device ARCHIVE
Informative output:
 -v, --verbose
                       verbosely list files processed
```

How many new files will be created from the above command for the valid directory and tarball_name?

Response Type: Numeric

Evaluation Required For SA: Yes

Show Word Count: Yes

Answers Type: Equal

Text Areas: PlainText

Possible Answers:

Sub-Section Number: 8

Sub-Section Id: 64065388077

Question Shuffling Allowed: No

Is Section Default?: null

Question Id: 640653611163 Question Type: COMPREHENSION Sub Question Shuffling

Allowed : No Group Comprehension Questions : No Question Pattern Type : NonMatrix

Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

Question Numbers: (245 to 246)

Question Label: Comprehension

```
#!/bin/bash
prn_num(){
    for c in 9 8 7; do
        sleep 0.25
        echo -n $c
    done
}

for i in {1..3}; do #first loop
    prn_num
done

for i in {1,2}; do #second loop
    prn_num &
done
```

Based on the above data, answer the given subquestions.

Sub questions

Question Number: 245 Question Id: 640653611164 Question Type: SA Calculator: None

Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

Correct Marks: 7

Question Label: Short Answer Question

What is the output of the **first loop** at the end of the execution of the given script?

Response Type: Alphanumeric
Evaluation Required For SA: Yes
Show Word Count: Yes
Answers Type: Equal
Answers Case Sensitive : No
Text Areas : PlainText
Possible Answers :
987987987
Question Number : 246 Question Id : 640653611165 Question Type : SA Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 7
Question Label : Short Answer Question
What is the output of the second loop after the execution of the given script?
Response Type: Alphanumeric
Evaluation Required For SA : Yes
Show Word Count : Yes
Answers Type: Equal
Answers Case Sensitive : No
Text Areas : PlainText
Possible Answers :
998877
MLP
C. 10(F) 41242

Section Id: 64065341313

Section Number: 10

Section type: Online

Mandatory or Optional : Mandatory

Number of Questions: 35