Topic 105: (4) Shells and Shell Scripting

Topic 105: (4) Shells and Shell Scripting	1
105.1 (4) Customize and use the shell environment	2
105.2 (4) Customize or write simple scripts	7

Topic 105: (4) Shells and Shell Scripting 105.1 (4) Customize and use the shell environment 105.2 (4) Customize or write simple scripts

105.1 (4) Customize and use the shell environment

Question: 4

Which command makes the shell variable named VARIABLE visible to subshells?

A. export \$VARIABLE

B. export VARIABLE

C. set \$VARIABLE

D. set VARIABLE

E. env VARIABLE

Answer: B

Question: 9

Which of the following commands puts the output of the command date into the shell variable

mydate?

A. mydate="\$(date)"

B. mydate="exec date" C. mydate="\$((date))"

D. mydate="date"

E. mydate="\${date}"

Answer: A

Question: 10

Which of the following files, when existing, affect the behavior of the Bash shell? (Choose TWO correct answers.)

A. ~/.bashconf
B. ~/.bashrc
C. ~/.bashdefaults
D. ~/.bash_etc
E. ~/.bash_profile
Answer: B, E
Question: 12
How can the existing environment variable FOOBAR be suppressed for the execution of the script./myscript only?
A. unset -v FOOBAR;./myscript
B. set -a FOOBAR="";./myscript
C. env -u FOOBAR ./myscript
D. env -i FOOBAR ./myscript
Answer: C
Question: 14
What output will the following command produce?
seq 1 5 20
A. 1 6 11 16
B. 1 5 10 15
C. 1 2 3 4
D. 2 3 4 5
E. 5 10 15 20
Answer: A

Question: 16

Which of the following commands lists all defined variables and functions within Bash?

A. env

B. set

C. env -a

D. echo \$ENV

Answer: B

Question: 18

What is the purpose of the file /etc/profile?

- A. It contains the welcome message that is displayed after login.
- B. It contains security profiles defining which users are allowed to log in.
- C. It contains environment variables that are set when a user logs in.
- D. It contains default application profiles for users that run an application for the first time.

Answer: C

Question: 19

What command displays all aliases defined in the current shell? (Specify the command without any path information)

Answer: alias, alias -p

Question: 20

Which of the following are requirements in order to run a shell script like a regular command from anywhere in the filesystem? (Choose THREE correct answers.)

- A. The user issuing the command must be in the group script.
- B. The script file must be found in the \$PATH.

D. The script must begin with a shebang-line (#!) that points to the correct interpreter.	
E. The file system on which the script resides must be mounted with the option scripts.	
Answer: B, C, D	
Question: 24	
Which of the following is the best way to list all defined shell variables?	
A. env	
B. set	
C. env -a	
D. echo \$ENV	
Answer: B	
Question: 25	
Which command allows you to make a shell variable visible to subshells?	
A. export \$VARIABLE	
B. export VARIABLE	
C. set \$VARIABLE	
D. set VARIABLE	
E. env VARIABLE	
Answer: B	
Question: 27	
What benefit does an alias in bash provide?	
A. It provides faster lookups for commands in the system directory.	
B. It creates a local copy of a file from another directory.	

C. The script file must have the executable permission bit set.

- C. It hides what command you are running from others.
- D. It allows a string to be substituted for the first word of a simple command.

Answer: D

105.2 (4) Customize or write simple scripts

Question: 1

What output will the following command sequence produce?

```
echo '1 2 3 4 5 6' | while read a b c; do echo result: $c $b $a; done
```

A. result: 3 4 5 6 2 1 B. result: 1 2 3 4 5 6

C. result: 6 5 4

D. result: 6 5 4 3 2 1

E. result: 3 2 1

Answer: A

Question: 2

When the command echo \$? outputs 1, which of the following statements is true?

- A. It is the process ID of the echo command.
- B. It is the process ID of the current shell.
- C. It is the exit value of the command executed immediately before echo.
- D. It is the exit value of the echo command.

Answer: C

Question: 5

What output will the command seq 10 produce?

- A. A continuous stream of numbers increasing in increments of 10 until stopped.
- B. The numbers 1 through 10 with one number per line.
- C. The numbers 0 through 9 with one number per line.

D. The number 10 to standard output.

Answer: B

Question: 8

After issuing:

function myfunction { echo \$1 \$2; }

in Bash, which output does:

myfunction A B C

Produce?

A. AB

B. ABC

C. A C D. B C

E. CBA

Answer: A

Question: 11

What is the difference between the commands test -e path and test -f path?

- A. They are equivalent options with the same behaviour.
- B. The -f option tests for a regular file. The -e option tests for an empty file.
- C. Both options check the existence of the path. The -f option also confirms that it is a regular file.
- D. The -f option tests for a regular file. The -e option tests for an executable file.

Answer: C

Question: 13

When the command echo \$\$ outputs 12942, what is the meaning of 12942?

- A. It is the process ID of the echo command.
- B. It is the process ID of the current shell.

- C. It is the process ID of the last command executed.
- D. It is the process ID of the last command which has been placed in the background.

Answer: B

Question: 14

What output will the following command produce?

seq 1 5 20

A. 161116

B. 151015

C. 1234

D. 2345

E. 5 10 15 20

Answer: A

Question: 20

Which of the following are requirements in order to run a shell script like a regular command from anywhere in the filesystem? (Choose THREE correct answers.)

- A. The user issuing the command must be in the group script.
- B. The script file must be found in the \$PATH.
- C. The script file must have the executable permission bit set.
- D. The script must begin with a shebang-line (#!) that points to the correct interpreter.
- E. The file system on which the script resides must be mounted with the option scripts.

Answer: B, C, D

Question: 28

You are looking into a new script you received from your senior administrator. In the very first line you notice a #! followed by a file path. This indicates that:

B. This script provides identical functionality as the file at that location.
C. This script will self-extract into a file at that location.
D. The program at that location will be used to process the script.
Answer: D
Question: 29
What keyword is missing from this code sample of a shell script?
i in *.txt; do
echo \$i
done
A. for
B. loop
C. until
D. while
Answer: A
Question: 187
Which of the following comparison operators for test work on elements in the file system? (Choose two.)
Az
B eq
Cd
Df
Elt
Answer: C,E

A. The file at that location was used to make the script.

Question: 188

What is the echo \$\$ command?

- A. The process ID of the current shell.
- B. The process ID for the following command.
- C. The process ID of the last command executed.
- D. The process ID of the last command which has been placed in the background.
- E. The process ID of the echo command.

Answer: A

Question: 189

What output is produced by the following command sequence?

```
echo '1 2 3 4 5 6' | while read a b c; do echo result $c $b $a; done
```

A. result: 6 5 4

B. result: 1 2 3 4 5 6

C. result: 3 4 5 6 2 1

D. result: 6 5 4 3 2 1

E. result: 3 2 1

Answer: C