Section 3: Shell Scripting

Questions

command:

a. CTRL-R

Please read the following questions carefully and try to answer them. You will find the correct answers, with an explanation where necessary, in the Answers.pdf file located in the same folder.

1.	A shell script can automate repetitive work. It can also be scheduled using a cron jobs
	a. True
	b. False
2.	Examples of Linux shells include (choose all that apply):
	a. BASH
	b. SH
	c. TCH
	d. KORN
3.	If you are working in EMACS mode on a BASH shell, you use the following command to
	go the start of the current line
	a. CTRL-E
	b. CTRL-A
	c. CTRL-D
	d. CTRL-K
4.	In EMACS mode, when you want to search your command history, you use the following
	command combination:
	a. CTRL-R
	b. CTRL-S
	c. /
	d. CTRL-O
5.	To leave EMCS mode and move to vi mode while editing in a BASH shell, you issue the
	following command:
	a. set vi
	b. vi
	c. set –o vi
	d. set editor=vi
6.	In vi mode, if you want to go to the end of the current line, you'd issue the following
	command:
	a. 0
	b. w
	c. h
	d. \$

7. To search command history while using the vi mode in BASH, you issue the following

c.	/10
d.	/tmp
10. The >>	sign is used to redirect the standard output of a process to a file. The text inside
this fil	e will get:
a.	Overwritten
b.	Appended to
C.	Cleared
d.	Nothing will happen to the text
11. You ca	in redirect standard input and standard error both to the same destination by
using t	the following sign:
a.	&>
b.	>&
C.	&&
d.	>>
=	want to redirect the output of a given process to the standard input of another
proces	ss, you use the following sign:
a.	>
	>>
C.	•
	%
=	s are ignored when assigning variables in BASH.
	True
	False
	fference between single quotes and double quotes in BASH is:
	There is no difference
b.	Variables get resolved inside the double quotes but are output literally if in single quotes.
c.	BASH will work faster if you used single quotes
d.	Single quotes cannot be concatenated to other strings while double quotes can
15. The pr	ofile file of a given user is used to set environment variables, startup scripts, and
any cu	stomizations needed for his/her session.
а	True
u.	False

8. A given process contains only 3 file descriptors: STDIN, STDOUT, and STDERROR

9. You can examine different file descriptors of a process by navigating to the following

b. / c. CTRL-S

d. S

directory:

a. Trueb. False

a. /procb. /process

16. When using the cut command, you want to specify the delimiter that the command , you use the following command switch:
a. –f
b. – d
c. —c
d. –o
17. In the cut command, you must direct the file to the command's standard input using the
< sign
a. True
b. False
18. If you are using the sort command, you want to use dictionary sorting rather than
numerical one. You use the following command line switch:
an
b. –c
cb
d. –d
19. While using the sort command, you can reverse order using the following switch:
a. −t
b. –g
c. —r
d. –e
20. The uniq command can take any form of lines and output the unique values
a. True
b. False
21. If you want to count the output of uniq command, either the duplicated lines or the
unique ones, you use the following switch:
ac
b. –d
cr
d. You cannot count lines in uniq command
22. If you want to count lines using the wc command, you use the following switch:
a. –l
b. –c
c. –w
d. –count=lines
23. In the head command, you want to print all lines of a text file except the last 10 lines.
You use the following form:
a. headlines=-10
b. headlines=10
c. head -10
d. head +10
24. You are using the tail command to monitor a log file, to which a specific process with
PID 15654 is writing. You want to make sure that tail stops monitoring the file as soon as
the process exits. You use the following command form:

- a. tail -p 15654
- b. tail pid=15654
- c. tail --pid=15654
- d. Just open another terminal and monitor the process using ps –ef
- 25. When using grep to filter the output of ps —ef searching for the occurrence of a specific process, you want to make sure that the grep command itself is not in the output. You use the following form of grep to do that:
 - a. grep --ignore grep
 - b. grep -v grep
 - c. grep –I grep
 - d. grep –c grep
- 26. You cannot use the commands you use in a BASH script separately on the command line
 - a. True
 - b. False
- 27. In BASH, you must use semicolons after each command
 - a. True
 - b. False
- 28. To execute a BASH script, you must start the script with #!/bin/bash
 - a. True
 - b. False
- 29. A shell script file must end in .sh extension or it won't get executed
 - a. True
 - b. False
- 30. The difference between pritnf and echo is that printf can handle special characters like \n and \t while echo cannot do that natively
 - a. True
 - b. False
- 31. The \$0 special variable in BASH denotes the following:
 - a. The first command line argument passed to the script
 - b. The script name
 - c. The shell name
 - d. The username
- 32. If you want to determine the total number of command line arguments passed to a script, you use the following special variable:
 - a. \$#
 - b. \$0
 - c. \$COUNT
 - d. \$\$
- In BASH, a function must be called like file function name().
 - a. True
 - b. False
- 34. If you want to make a local copy of a variable in BASH, you use the following command:
 - a. private
 - b. nonglobal

c.	local
d.	\$
35. When	you want to test two numbers for equality in a BASH script, you use the following
comm	and:
a.	==
b.	eq
C.	-eq
d.	equal
36. It is wi	se to place a sleep interval in an infinite while loop to protect the server resource
from o	ver use
a.	True
b.	False
37. Perl us	es the following to mark a code block:
a.	Dodone
b.	<i>{}</i>
c.	Beginend
d.	4 space indentation
38. Perl st	atements cannot be used outside a perl script
a.	True
b.	False
39. In Perl	, arrays are denoted by the following sign:
a.	\$
b.	@
c.	%
d.	#
40. To get	the total number of items in a Perl array @usernames, you use the following
form:	
a.	\$#usernames
b.	#@usernames
C.	#\$usernames
d.	\$#usernames + 1
41. Perl ca	n accept multiple lines of input from the user
a.	True
b.	False
42. To get	the first command line argument passed to a Perl script, you use the following
specia	variable:
a.	\$ARGV[0]
b.	\$0
C.	\$1
d.	None of the above
43. In Perl	, the following sign is used to test two strings for equality:
a.	-eq
b.	eq
C	==

- d. None of the above
- 44. Python requires you to add semicolons after each command:
 - a. True
 - b. False
- 45. The following Python module is used to accept arguments from the command line:
 - a. sys
 - b. os
 - c. time
 - d. date
- 46. The following function is used to accept input from a user in Python
 - a. raw input()
 - b. input()
 - c. read
 - d. None of the above
- 47. Python recognizes a block of code when it starts with : and it indented 4 spaces to the right
 - a. True
 - b. False
- 48. There is no difference between a list and a tuple in Python
 - a. True
 - b. False
- 49. A dictionary is Python is like a hash in Perl
 - a. True
 - b. False
- 50. The following module in Python provides the sleep function, which pauses execution for a specified number of seconds:
 - a. Time
 - b. Sleep
 - c. Date
 - d. None of the above