Home / I'm Learning / IoT Fundamental: Connecting Things / Connecting Things: Chapter 3 / Connecting Things Chapter 3 Quiz

Started on	Saturday 26 November 2022 6:50 PM				
	Saturday, 26 November 2022, 6:50 PM Finished				
	Saturday, 26 November 2022, 6:55 PM				
	5 mins 29 secs				
	38.00/38.00				
Grade	100.00 out of 100.00				
Question 1					
Correct					
Mark 2.00 out of 2.00					
What are two feature	es related to Linux? (Choose two.)				
Select one or more:					
open source					
an application t	for word processing				
an example of	interpreted language				
a code base m	anaged by one organization				
support by a co	ommunity of programmers				
each distribution has	topic: 3.2.3 urce operating system and maintained by a community of programmers. There are many distributions (or variations) of less its own code base maintained by an organization. seare: open source, support by a community of programmers				
Question 2					
Correct					
Mark 2,00 out of 2,00					
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What is a Raspberry	, Pi?				
	r Pi?				
What is a Raspberry	y Pi?				
What is a Raspberry Select one: a small, low co					
What is a Raspberry Select one: a small, low co a Python functi	st, single-board computer				
What is a Raspberry Select one: a small, low co a Python functi an object-orien	st, single-board computer ion for conditional logic				
What is a Raspberry Select one: a small, low co a Python functi an object-orien	ist, single-board computer ion for conditional logic sted programming language service for teaching IoT				

Question 3
Correct
Mark 2.00 out of 2.00
What tool can be used on a Linux device to compare all installed software against a repository index, to download updates, and to install them automatically?
Select one:
Blockly
improved C Shell (tcsh)
Arduino
opackage manager system
Refer to curriculum topic: 3.2.3 A package manager can be used to upgrade programs and the Linux operating system. Package managers allow users to compare installed software versions against a repository index and then download and automatically install all updated software programs.
The correct answer is: package manager system
Question 4
Correct
Mark 2.00 out of 2.00
What is the benefit of deploying a group of headless Pi IoT devices?
Select one:
○ Each Pi IoT device is managed remotely on a network.
A single monitor can be connected to the group of Pi IoT devices.
The Pi loT devices can connect to each other using Zigbee.
The group of Pi IoT devices must be controlled by a single Pi device in the cloud.
Refer to curriculum topic: 3.2.2 The term headless is used to describe servers that are only remotely operated. A Pi can be set up to be managed entirely over the network and can be operated without the need for a monitor, keyboard, or mouse.
The correct answer is: Each Pi IoT device is managed remotely on a network.

Question 5	
Correct	
Mark 2.00 out of 2.00	
Which Linux shell command can be used to search a specific string of characters within a file?	
Select one:	
○ cat	
○ man	
○ grep	
Refer to curriculum topic: 3.2.3 There are many CLI commands in Linux, including these:	
 grep – used to search for specific strings of characters within a file or other commands outputs pwd – used to display the current directory cat – used to list the contents of a file man – used to display the documentation for a specific command 	
The correct answer is: grep	
Question 6	
Correct	
Mark 2.00 out of 2.00	
A system administrator issues the command ps on a server that is running the Linux operating system. What is the purpose of this command?	
Select one:	
o to process a new task	
to change file permissions	
to display the contents of the current directory	
oto list the processes currently running in the system	
Refer to curriculum topic: 3.2.3 The Linux ps command is used to list the currently running processes in the system. If needed, this command can be instructed to display running processes initiated by the current user or other users.	
The course angular in the list the processes of manufacture in the courters	

The correct answer is: to list the processes currently running in the system

Question 7
Correct
Mark 2.00 out of 2.00
Which Linux distribution is used to develop the Raspbian operating system for the Raspberry Pi?
Select one:
Mint
Ubuntu
○ Debian
Red Hat
Slackware
Refer to curriculum topic: 3.2.3 Raspbian, the operating system for Raspberry Pi, is a Debian Linux variation. The correct answer is: Debian
Question 8
Correct
Mark 2.00 out of 2.00
Which Python command is an example of conditional logic?
Select one:
() def
O delay
○ if
○ from
Refer to curriculum topic: 3.2.5 The commands if and else are used for conditional logic. The commands for and while are used for repetition logic, and from is for module importing. The correct answer is: if

Question 9
Correct
Mark 2.00 out of 2.00



To answer the question, you do not need the graphic. Why is it common to connect an Arduino board with a single board computer like the Raspberry Pi?

Select one:

(The	Arduino	is a	full	computer	and	the	Raspberry	/ Pi	is	not	
1	 1116	Aruuiiio	is a	IUII	Compater	anu	uie	Masphelli	<i>y</i> г і	15	HOL	

The Raspberry Pi cannot process incoming digital signals.

The Arduino has analog pins.

The Raspberry Pi does not require software to interact with an Arduino.

Refer to curriculum topic: 3.2.6

Analog signals are generated by thermometers, light sensors, and air pressure sensors. A Raspberry Pi does not have analog pins and requires the use of another device to receive this data. An Arduino has analog pins and can then receive analog signals and data by connecting to a Raspberry Pi via USB.

The correct answer is: The Arduino has analog pins.

Question 10

Correct

Mark 2.00 out of 2.00

What is a method to secure the control plane of an IoT device?

Select one:

the encryption of user data

enforcement of authorized access to code

restricting access to servers

verification of data integrity

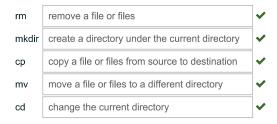
Refer to curriculum topic: 3.1.3

Securing the control plane of an IoT device can be done by enforcing authorized access to code, removing any hard-coded debug access accounts, and keeping firmware upgraded.

The correct answer is: enforcement of authorized access to code

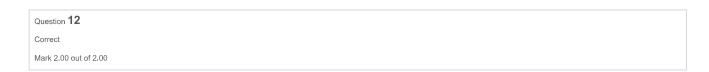
Question 11	
Correct	
Mark 2.00 out of 2.00	

Match the Linux administrative command to the function it performs. (Not all options are used.)



Refer to curriculum topic: 3.2.3

The correct answer is: rm \rightarrow remove a file or files, mkdir \rightarrow create a directory under the current directory, cp \rightarrow copy a file or files from source to destination, mv \rightarrow move a file or files to a different directory, cd \rightarrow change the current directory



A user is using Blockly to program a process to find the next 100 prime numbers after 2. Which block is best used for the task?

Select one: FOR block WHILE block

PRIME block

IF-THEN block

Refer to curriculum topic: 3.2.4

FOR loop blocks are used to repeat the execution of a specific block of code for a specific number of times. It is best used if the number of repetitions is known. In this case, the repetition number is 100. The FOR block can execute 100 times, each time to find a prime number. After 100 prime numbers are found, the FOR block will stop the execution.

The correct answer is: FOR block

Question 13
Correct
Mark 2.00 out of 2.00
Which Python function is used for console output?
Select one:
O print
return
() for
from
Refer to curriculum topic: 3.2.5
The print command is used for console output. The command for is used for repetition logic, from is used for module importing, and return is a
function definition.
The correct answer is: print
Question 14
Correct
Mark 2.00 out of 2.00
True or False?
Programmers only work on desktop applications.
Select one:
○ true
∫ false ✓
Refer to curriculum topic: 3.1.1
In the past, many programmers worked on desktop applications. The Internet and the IoT, however, have opened up many interesting new areas of
work for programmers.
The correct answer is: false
a 45
Question 15
Correct
Mark 2.00 out of 2.00
What is needed for a computer program to communicate with another computer program made from a different vendor?
Select one:
○ API
firmware
firmware
firmware device driver
firmware device driver operating system Refer to curriculum topic: 3.1.3
firmware device driver operating system

Someoning Things Grapher 5 Quiz. Attempt to view
Question 16
Correct
Mark 2.00 out of 2.00
What elements are used to represent different programming structures in Blockly?
Select one:
○ flowcharts
○ colored blocks
programming code pieces
olored lines and symbols
Refer to curriculum topic: 3.2.4 Blockly implements visual programming by assigning different programming structures to colored blocks. These blocks also contain slots and spaces to allow programmers to enter values required by the structure. Programming structures can be connected by dragging and attaching the appropriate blocks. The correct answer is: colored blocks
Question 17
Correct
Mark 2.00 out of 2.00
Which language is an example of a compiled programming language?
Select one:
O Python
○ PHP
Javascript
○ c
Refer to curriculum topic: 3.1.2 C is a compiled programming language, whereas Python, PHP, and Javascript are all interpreted languages. The correct answer is: C

What is an advantage of an executable program coded with an interpreted language compared with a compiled language? Select one: It runs faster. It stores as binary format. It is easier to maintain and troubleshoot. It does not rely on another program in order to execute. Refer to curriculum topic: 3.1.2 A program coded with an interpreted language stays in human-readable text, which makes it easy to maintain and troubleshoot. However, it relies of another program, called the interpreter, to parse and execute the code. Because it requires interpretation during its execution, it runs slower than the same program coded by a compiled language. The correct answer is: It is easier to maintain and troubleshoot. Which statement describes Blockly? Select one: It is a specific Linux distribution. It is a specific Linux distribution. It is a specific Linux distribution. It is a JavaScript based library for implementing visual programming. By using a number of block types, it allows a user to create a program without entering any lines of code. It is not an example of a compiled language, nor a Linux distribution, Although it provides visual programming.	KI KI	ead Chapter 4. Networks, rog and Cloud Computing
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lark 2.00 out of 2.00	Select one:	
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	Mark 2.00 out of 2.00	
orrect	Correct	

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