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Introduction to IoT

Started on	Saturday, 26 November 2022, 1:33 PM
State	Finished
Completed on	Saturday, 26 November 2022, 1:37 PM
Time taken	4 mins 13 secs
Marks	30.00/30.00
Grade	**100.00** out of 100.00

Question **1**

Correct

Mark 2.00 out of 2.00

Which platform is a low cost, credit-card-sized computer?

Select one:

○ Arduino

○ Blockly

○ PL-App

◉ Raspberry Pi   ✔

Refer to curriculum topic: 2.2.2
The Raspberry Pi is a low cost, credit-card-sized computer that is programmed using Python. The Arduino is an open-source low power physical computing platform used to control devices. The PL-App provides a web-based environment used to access the Raspberry Pi. Blockly is a visual programming tool for beginners.

The correct answer is: Raspberry Pi

Question **2**

Correct

Mark 2.00 out of 2.00

What is one way to pay for prototyping?

Select one:

○ mortgage

○ easy pay

◉ crowd funding   ✔

○ incorporate

Refer to curriculum topic: 2.2.1
Crowd funding is a way to generate money where a small amount of money is contributed by multiple people. A corporation may be formed if a prototype works. A mortgage is used to fund a home.

The correct answer is: crowd funding

Question 3

Correct

Mark 2.00 out of 2.00

A student has a digitized version of an idea for a product. What machine can the student use to turn the idea into a solid object?

Select one:

○ Arduino

◉ 3D printer   ✔

○ Beaglebone

○ Raspberry Pi

○ Packet Tracer

Refer to curriculum topic: 2.2.2
A 3D printer has the capability of producing a solid object. There are also low technology options, such as LEGO Mindstorms, that may work for creating a physical rendition of a prototype. Arduino, Beaglebone, and Raspberry Pi are computing platforms. Packet Tracer is a networking simulation tool.

The correct answer is: 3D printer

Question 4

Correct

Mark 2.00 out of 2.00

Which output would be displayed if the code that is shown below is entered in a Python interpreter?

y = ['yellow', 'red', 'green', 'purple', 'white']
print y

Select one:

○ y

◉ It shows "SyntaxError"   ✔

○ yellow, red, green, purple, white

○ 'yellow', 'red', 'green', 'purple', 'white'

Refer to curriculum topic: 2.1.3
A syntax error would be printed because the variable to be printed has to be in parenthesis (y).

The correct answer is: It shows "SyntaxError"

Question **5**

Correct

Mark 2.00 out of 2.00

What is used to illustrate how a given process will run?

Select one:

○ Packet Tracer

○ pie chart

○ graph

⊙ flow chart   ✔

Refer to curriculum topic: 2.1.1
A flow chart is used in programming to illustrate how a given process will run.

The correct answer is: flow chart

Question **6**

Correct

Mark 2.00 out of 2.00

What is displayed after the following code is entered into a Python interpreter?

addition = 22 +10
print(addition)

Select one:

○ (syntaxerror)-...as there should not be a space between the numerical values

○ [22]+[10]

⊙ 32   ✔

○ nothing (because the print command is wrong)

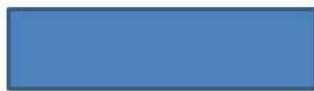Refer to curriculum topic: 2.1.3
The Python interpreter will perform the operation and display the result, 32.

The correct answer is: 32

Question **7**

Correct

Mark 2.00 out of 2.00

Refer to the exhibit. What does the exhibited flow chart symbol represent?

Select one:

○ data

○ preparation

◉ process   ✔

○ display

Refer to curriculum topic: 2.1.1
The rectangular symbol represents "Process" in a flow chart.

The correct answer is: process

Question **8**

Correct

Mark 2.00 out of 2.00

What are two resources that could help someone learn to program? (Choose two.)

Select one or more:

Maker Media

✓ Khan Academy   ✔

Kickstarter

✓ Code Academy   ✔

Quirky

Refer to curriculum topic: 2.2.2
There are many resources that help with learning to program. Some resources include the following: Code Academy, Khan Academy, Blockly, and MIT OpenCourseWare (OCW).

The correct answers are: Code Academy, Khan Academy

Question **9**

Correct

Mark 2.00 out of 2.00

How is a new variable created in Blockly?

Select one:

◯ Declare the variable in a Dim statement.

◯ Drag the variable block onto the work space area.   ✔

◯ Determine the type of variable needed, then scroll to the appropriate place in the code to insert the variable.

◯ Use the assignment operator

Refer to curriculum topic: 2.1.2
In Blockly, a variable is created by dragging the variable block onto the work space area and filling in the value slot.

The correct answer is: Drag the variable block onto the work space area.

Question **10**

Correct

Mark 2.00 out of 2.00

What output is expected when the function that is shown below is entered in a Python program interpreter?

>>>print Cisco 1

Select one:

◯ Cisco1

◯ "SyntaxError: Missing parentheses in call to 'print'"   ✔
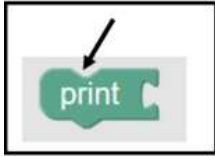
◯ cisco 1

◯ Cisco 1

Refer to curriculum topic: 2.1.3
It will display "SyntaxError:Missng parenthesis in call to "Print'" and futhermore the name 'cisco 1' is not defined.

The correct answer is: "SyntaxError: Missing parentheses in call to 'print'"

Question **11**

Correct

Mark 2.00 out of 2.00

Refer to the exhibit. A specific Blockly block has a slot on the top. What is the purpose of this slot?

Select one:

○ A block with a printer name is required to be attached above the block shown.

○ This block is the topmost block.

○ The block is a variable.

◉ The slot allows a block with a bevel tab on the bottom to be connected above the block shown.   ✔

Refer to curriculum topic: 2.1.2
A slot in the top means another block may be attached above the block.

The correct answer is: The slot allows a block with a bevel tab on the bottom to be connected above the block shown.

Question **12**

Correct

Mark 2.00 out of 2.00

What is Blockly?

Select one:

◉ a programming tool for beginners   ✔

○ a network simulation program

○ a low-cost credit-card-sized computer

○ a non-profit educational website

Refer to curriculum topic: 2.1.2
No prior programming knowledge or code is needed to start programming with Blockly.

The correct answer is: a programming tool for beginners

Question **13**

Correct

Mark 2.00 out of 2.00

Which Python programming function is used to display output?

Select one:

◯ while

◯ print   ✔

◯ for

◯ if

Refer to curriculum topic: 2.1.3
Print is used to display output in a Python programing language interpreter.

The correct answer is: print

Question **14**

Correct

Mark 2.00 out of 2.00

Refer to the exhibit. What does the exhibited flow chart symbol commonly represent?

Select one:

◯ data

◯ termination

◯ connector

◯ decision   ✔

Refer to curriculum topic: 2.1.1
The diamond symbol is commonly used to represent "Decision" in a flow chart.

The correct answer is: decision

Question **15**

Correct

Mark 2.00 out of 2.00

What is the output when the following code is entered into a Python program interpreter?

[1,2,4,5] + [3,6]

Select one:

○ [21]

○ [12]+[9]

○ [1,2,3,4,5,6]

○ [1,2,4,5,3,6]   ✔

Refer to curriculum topic: 2.1.3
The Python interpreter performs concatenation of two lists without reordering the list elements

The correct answer is: [1,2,4,5,3,6]

◄ Chapter 2: Terms and Concepts Practice

Jump to...

Read Chapter 3: Everything Generates Data ►