

[Course Home](#)
[Grades](#)
[Messages](#)
[Calendar](#)

Introduction to IoT English 1120 dm

Started on	Tuesday, 2 February 2021, 4:45 AM
State	Finished
Completed on	Tuesday, 2 February 2021, 4:50 AM
Time taken	5 mins 12 secs
Marks	22.00/31.00
Grade	70.97 out of 100.00

Question 1

Correct

Mark 2.00 out of 2.00

 Flag question

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

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

Select one:

- ☐ [21]
- ☒ [1,2,4,5,3,6] ✓
- ☐ [12]+[9]
- ☐ [1,2,3,4,5,6]

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]

Question 2

Correct

Mark 2.00 out of 2.00

 Flag question

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

```
>>>print Cisco 1
```

Select one:

- ☐ Cisco 1
- ☒ "SyntaxError: Missing parentheses in call to 'print'" ✓
- ☐ Cisco1
- ☐ cisco 1

Refer to curriculum topic: 2.1.3

It will display "SyntaxError:Missing 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 3

Correct

Mark 2.00 out of 2.00

 Flag question

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

Select one or more:

- ☒ Code Academy ✓
- ☐ Kickstarter
- ☐ Maker Media
- ☒ Khan 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 4

Incorrect

Mark 0.00 out of 3.00

 Flag question

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:

- ☒ Packet Tracer ✗
- ☐ Beaglebone
- ☐ Raspberry Pi
- ☐ Arduino
- ☐ 3D printer

Refer to curriculum topic: 2.2.2

Quiz navigation

1 ✓	2 ✓	3 ✓	4 ✗	5 ✓	6 ✗	7 ✓	8 ✓
9 ✓	10 ✓	11 ✓	12 ✗	13 ✓	14 ✓	15 ✗	

[Show one page at a time](#)
[Finish review](#)

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 5

Correct

Mark 2.00 out of 2.00

Flag question

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
- ☒ 32 ✓
- ☐ [22]+[10]
- ☐ 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 6

Incorrect

Mark 0.00 out of 2.00

Flag question

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

Select one:

- ☐ Blockly
- ☐ Arduino
- ☐ Raspberry Pi
- ☒ PL-App ✗

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 7

Correct

Mark 2.00 out of 2.00

Flag question

Which Python programming function is used to display output?

Select one:

- ☐ if
- ☐ while
- ☐ for
- ☒ print ✓

Refer to curriculum topic: 2.1.3

Print is used to display output in a Python programming language interpreter.

The correct answer is: print

Question 8

Correct

Mark 2.00 out of 2.00

Flag question

What is Blockly?

Select one:

- ☐ a network simulation program
- ☐ a low-cost credit-card-sized computer
- ☒ a programming tool for beginners ✓
- ☐ 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.

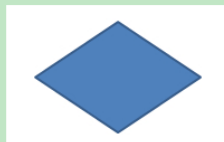
The correct answer is: a programming tool for beginners

Question 9

Correct

Mark 2.00 out of 2.00

Flag question



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

Select one:

- ☒ data

- ☐ termination
- ☒ decision ✓
- ☐ connector

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 10

Correct

Mark 2.00 out of 2.00

Flag question

How is a new variable created in Blockly?

Select one:

- ☐ Declare the variable in a Dim statement.
- ☐ Determine the type of variable needed, then scroll to the appropriate place in the code to insert the variable.
- ☒ Drag the variable block onto the work space area. ✓
- ☐ 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 11

Correct

Mark 2.00 out of 2.00

Flag question

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

Select one:

- ☐ graph
- ☐ pie chart
- ☐ Packet Tracer
- ☒ flow chart ✓

Refer to curriculum topic: 2.1.1

A flow chart is used in programming to illustrate how a given process will run.

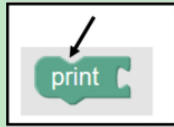
The correct answer is: flow chart

Question 12

Incorrect

Mark 0.00 out of 2.00

Flag question



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

Select one:

- ☐ The block is a variable.
- ☐ The slot allows a block with a bevel tab on the bottom to be connected above the block shown.
- ☒ A block with a printer name is required to be attached above the block shown. ✗
- ☐ This block is the topmost block.

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 13

Correct

Mark 2.00 out of 2.00

Flag question

What is one way to pay for prototyping?

Select one:

- ☐ mortgage
- ☒ crowd funding ✓
- ☐ incorporate
- ☐ easy pay

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 14

Correct

Mark 2.00 out of



2.00

Flag
question

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

Select one:

- ☐ data
- ☒ process ✓
- ☐ preparation
- ☐ display

Refer to curriculum topic: 2.1.1

The rectangular symbol represents "Process" in a flow chart.

The correct answer is: process

Question 15

Incorrect

Mark 0.00 out of
2.00

Flag
question

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:

- ☐ It shows "SyntaxError"
- ☐ 'yellow', 'red', 'green', 'purple', 'white'
- ☒ yellow, red, green, purple, white ✗
- ☐ y

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"

[Finish review](#)

[◀ Chapter 2: Terms and Concepts
Practice](#)

Jump to...



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Generates Data ▶](#)

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