# Internet of Things Test 1

In a project team who is responsible for designing and making the product?

A. Engineer

B. Project Manager

C. Developer

D. Marketing and Communications

ANSWER: A

Who in the project management team is responsible for designing the IPO process?

A. Engineer

B. Project Manager

C. Developer

D. Marketing and Communications

ANSWER: C

What is a protocol?

A. A piece of code which can copy itself and corrupt data

B. Jumbling up information to protect it during transmission

C. A set of rules which governs data communication

D. A piece of software which blocks a range of malicious threats from entering a device

ANSWER: C

What is a computer virus?

A. A piece of code which can copy itself and corrupt data

B. A piece of software which blocks a range of malicious threats from entering a device

C. The overall term that is given to malicious software

D. A set of rules which governs data communication

ANSWER: A

Emma has purchased a new LED screen for her micro:bit but has noticed that the code blocks which she needs to use are not on the screen. What should she do?

A. Click on ‘install library’

B. Click on ‘Advanced’ then ‘Add Package’

C. She can’t, she should send the peripheral back

D. Purchase a new model of micro:bit

ANSWER: B

Why do computers use binary?

A. It is a 2 base number system

B. It is all they understand

C. Because they are made of switches and transistors which only have 2 states

D. They don’t

ANSWER: C

In ASCII the binary representation for ‘A’ is 10000001. What is the binary representation for ‘C’?

A. 10000001

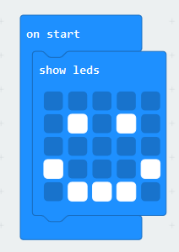
B. 10000010

C. 10000011

D. 10000111

ANSWER: C

On the following bitmap image what would be the binary representation for the second row in the image if 1 is on and 0 is off?



A. 00000

B. 10101

C. 01010

D. 11111

ANSWER: C

What is metadata?

A. Lots of data

B. Data about data

C. The file type that an image is stored as

D. A type of bitmap

ANSWER: B

To convert analogue sound into digital it has to be sampled. What is measured in Hz?

A. The volume

B. The file type

C. The number of samples taken per second

D. The length of the sample

ANSWER: B

Sam has sampled a sound file and found it to be poor quality. He has decided to double the sample rate. What impact will this have on the overall file size?

A. It will double it

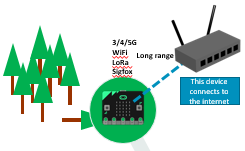
B. It will halve it

C. None, it will stay the same

D. It will quadruple it

ANSWER: A

What is the name of the device which connects the micro:bit to the internet?



A. Node

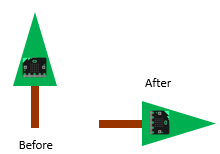
B. Hub

C. Gateway

D. Modem

ANSWER: C

What is the name of the sensor which you used to detect whether a tree had been chopped down?



A. Compass

B. Temperature

C. Tilt

D. Accelerometer

ANSWER: D

What will the program output if year = 2019?



A. The year is 2019

B. The year is2019

C. The year is, year

D. Nothing as the procedure has not been called

ANSWER: D

In the following list a linear search is being used to check if ‘Fish’ is in the list. How many items will need to be checked?

[“Cat”,”Dog”,”Fish”,”Lion”,”Tiger”]

A. 1

B. 2

C. 3

D. 4

ANSWER: C

In the following list a binary search is being used to check if ‘Fish’ is in the list. How many items will need to be checked?

[“Cat”,”Dog”,”Fish”,”Lion”,”Tiger”]

A. 1

B. 2

C. 3

D. 4

ANSWER: A

Which of the following algorithms can be used to put a list into order?

A. Binary search

B. Sequential search

C. Binary Sort

D. Bubble Sort

ANSWER: D

Which of the following is a text based, high level programming language?

A. Python

B. Adder

C. Black mamba

D. Grass

ANSWER: A

Which of the following does not form part of the Internet of Things?

A. A smart light bulb

B. A power socket which can be controlled from a mobile telephone

C. A central heating system which can be controlled over the Internet

D. All of the above

ANSWER: D

Which of the following is a type of image?

A. WAV

B. MP3

C. BMP

D. All of the above

ANSWER: C