



INSTRUCTIONS:

Answer the following questions.

Name: _____

Date: _____

Grade: _____

Date and Name:

Complete Name and Date (short date) in the correct English format. **2 pts**

Content:

37 pts

Follows instructions:

The student follows the assignment guidelines and teacher's directions. **1 pts**

Punctuality and responsibility:

Brings necessary implements, works hard, focuses on his workshop and submits work in time. **2 pts**

Total points. 42 pts.

Part 1: Multiple Choice

Choose the best answer for each question.

2. One of the micro:bit's general-purpose input/output pins used to connect sensors or outputs. (1 pts)

- A. P0
- B. gesture
- C. input
- D. loop

- 3. A communication feature that lets multiple micro:bits send and receive messages. (1 pts)**
- A. speaker
 - B. Bluetooth
 - C. radio
 - D. output
- 4. A wireless technology that allows the micro:bit to communicate with other devices. (1 pts)**
- A. Bluetooth
 - B. P0
 - C. output
 - D. GPIO
- 5. A motor that precisely controls position, often connected to the micro:bit using a driver. (1 pts)**
- A. Bluetooth
 - B. servo
 - C. debugging
 - D. output
- 6. A built-in component on the micro:bit V2 that plays tones and sounds. (1 pts)**
- A. output
 - B. speaker
 - C. GPIO
 - D. microcontroller

Part 2: True or False

Indicate whether each statement is true or false.

2. _____ loop means "A programming structure that repeats a set of instructions.". (1 pts)
3. _____ firmware means "A small computer on a single chip that can be programmed to control devices.". (1 pts)
4. _____ edge connector means "A small computer on a single chip that can be programmed to control devices.". (1 pts)
5. _____ accelerometer means "A sensor that measures movement, tilt, and vibration.". (1 pts)
6. _____ gesture means "A small computer on a single chip that can be programmed to control devices.". (1 pts)

Part 3: Fill in the Blank

Complete each sentence with the appropriate word or phrase.

2. _____ The definition of "variable" is: _____ (1 pts)

3. _____ The definition of "servo" is: _____ (1 pts)
4. _____ The definition of "PO" is: _____ (1 pts)
5. _____ The definition of "accelerometer" is: _____ (1 pts)
6. _____ The definition of "debugging" is: _____ (1 pts)

Part 4: Matching

Match each term with its correct definition.

2. Matching Section

(5 pts)

1. ____ P0
2. ____ gesture
3. ____ edge connector
4. ____ input
5. ____ sound sensor

A. One of the micro:bit's general-purpose input/output pins used to connect sensors or outputs.

B. A motion detected by the micro:bit's accelerometer, such as shake or tilt.

C. The row of metal contacts at the bottom of the micro:bit used to connect external components.

D. A signal or action the micro:bit receives, such as button presses or sensor readings.

E. A built-in microphone that detects sound levels around the micro:bit V2.

Part 5: Short Answer

Answer each question in complete sentences.

2. _____ Describe the meaning of "output" in your own words. (2 pts)

Part 6: Multiple Choice

Choose the best answer for each question.

2. Which word is an ANTONYM (opposite meaning) of "A metal connection point on the micro:bit used for reading inputs or controlling outputs."? (1 pts)

- A. accelerometer
- B. variable
- C. pin
- D. gesture

3. Which word is an ANTONYM (opposite meaning) of "The row of metal contacts at the bottom of the micro:bit used to connect external components."? (1 pts)

- A. P0
- B. edge connector
- C. input
- D. radio

4. Which word is a SYNONYM (similar meaning) of "One of the micro:bit's general-purpose input/output pins used to connect sensors or outputs."? (1 pts)

- A. microcontroller
- B. P0
- C. pin
- D. debugging

5. Which word is a SYNONYM (similar meaning) of "A built-in component on the micro:bit V2 that plays tones and sounds."? (1 pts)

- A. microcontroller
- B. input
- C. output
- D. speaker

6. Which word is an ANTONYM (opposite meaning) of "A signal or action the micro:bit sends out, such as lighting LEDs or playing sounds."? (1 pts)

- A. servo
- B. output
- C. microcontroller
- D. algorithm

Part 7: Word Search

Find all the vocabulary words in the grid.

A	L	G	O	R	I	T	H	M	K	S	Z	Y	V	T
W	S	U	H	W	B	L	U	E	T	O	O	T	H	S
M	D	W	V	J	L	Y	O	G	L	O	G	G	C	H
M	I	C	R	O	C	O	N	T	R	O	L	L	E	R
J	N	V	G	K	I	S	L	N	Q	P	O	X	V	R
C	T	A	P	P	V	E	O	N	E	W	N	P	F	E
O	D	R	I	P	I	D	E	B	U	G	G	I	N	G
A	B	I	N	Q	A	O	G	G	I	N	P	U	T	D
D	U	A	F	U	W	P	M	G	E	S	T	U	R	E
T	G	B	U	D	Z	F	I	R	M	W	A	R	E	S
X	T	L	G	E	A	G	J	A	T	Q	O	H	A	E
U	W	E	C	L	E	D		M	A	T	R	I	X	R
A	C	C	E	L	E	R	O	M	E	T	E	R	K	V
D	F	I	Y	S	P	E	A	K	E	R	U	A	S	O
T	Q	H	U	S	W	K	J	Y	B	X	U	K	W	W

Words to find:

firmware

microcontroller

algorithm

GPIO

accelerometer

speaker

variable

pin

LED matrix

debugging

servo

Bluetooth

gesture

input

loop