

Module 4 Quiz

TOTAL POINTS 8

1. What is the name of the Python package used to control the Raspberry Pi camera module?

1 point

- ☒ picamera
- ☐ camera
- ☐ picam
- ☐ rpicaamera

2. What function in the camera library is used to take a picture?

1 point

- ☒ capture()
- ☐ photo()
- ☐ picture()
- ☐ snap()

3. What is a “duty cycle”?

1 point

- ☐ The duration of the high pulse of a square wave
- ☒ The fraction of time a square wave is high
- ☐ The frequency of a square wave
- ☐ The period of a square wave

- 4.

1 point

Why is pulse width modulation useful?

- ☐ It is used to control the Raspberry Pi camera module
- ☐ It can be used to read data from camera sensors
- ☒ It can be used to mimic an analog signal
- ☐ It is commonly used to transmit video data

5. How many input wires does a servo have?

1 point

- ☐ 2
- ☒ 3
- ☐ 4
- ☐ 5

6. Why is it common to use an external power supply to drive a servo?

1 point

- ☐ AC power is needed to drive a servo
- ☐ A servo needs more voltage than a microcontroller can provide
- ☒ A servo needs more current than a microcontroller can provide
- ☐ A servo requires power in the form of a square wave

7. The CSI camera interface of the Raspberry Pi needs to be activated before using the camera module.

1 point

- ☒ True
- ☐ False

8. The speed of a servo motor is easily controlled.

1 point

☒ True

☐ False

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