

QUESTION 1

1 points**Save Answer**

Microcontrollers contain which of the following circuits within their IC:

- ☐ Microprocessor
- ☐ Flash and RAM
- ☐ I/O interfacing
- ☐ All of the above

QUESTION 2

1 points**Save Answer**

The ATmega328P microcontrollers contain the following memory:

- ☐ Flash memory
- ☐ EEPROM
- ☐ RAM
- ☐ Flash and RAM
- ☐ All of the above

QUESTION 3

1 points**Save Answer**

Generating a simulated analog output is achieved by the digital output of the Arduino Uno board through the process of:

- ☐ Analog output
- ☐ AREF
- ☐ Pulse width modulation (PWM)
- ☐ SDA

QUESTION 4

1 points**Save Answer**

The analog inputs from sensors, potentiometers, and buttons are

- ☐ Peripheral Interface circuit
- ☐ USART circuit
- ☐ ADC circuit
- ☐ PWM circuit

QUESTION 5**1 points****Save Answer**

The If and IF else are a pair of commands in the Arduino Processing language that handle:

- ☐ Settings given by the user
- ☐ Conditions from the input circuits
- ☐ Output results of the processor
- ☐ All of the above

QUESTION 6**4 points****Save Answer**

The voltage divider network circuit aids in what main purpose in input and output circuits:

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QUESTION 7**5 points****Save Answer**

The USB port serves 2 potential tasks on the Arduino Uno:

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QUESTION 8

1 points

Save Answer

When the reset button on the Arduino board is pressed, what memory is erased?

- ☐ All variables and results (RAM)
- ☐ Sketches (flash memory)
- ☐ EEPROM
- ☐ RAM and flash memory
- ☐ All memory

QUESTION 9

5 points

Save Answer

If the 9V battery is needed to power the dc motor in Week 4 lab, why is it connected to Vcc2 on the 54410 H-Bridge IC directly?

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QUESTION 10

5 points**Save Answer**

Explain three main parts of the Arduino sketch program. Detail what role each part of the programs play?

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Click Save and Submit to save and submit. Click Save All Answers to save all answers.