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**Started on** Monday, 6 September 2021, 5:04 PM

**State** Finished

**Completed on** Monday, 6 September 2021, 5:17 PM

**Time taken** 13 mins 44 secs

**Grade** 8.75 out of 10.00 (88%)

Question **1**

Correct

Mark 1.00 out of 1.00

What is the key disadvantage of using analog signals for communicating sensor information?

- ☐ a. All of the given options
- ☒ b. Susceptibility to Noise
- ☐ c. Transmission Delay
- ☐ d. High power consumption



Your answer is correct.

The correct answer is:

Susceptibility to Noise

Question **2**

Correct

Mark 1.00 out of 1.00

What is the advantage of serial digital communication over parallel?

- ☒ a. Use of less pins
- ☐ b. Fast Transmission
- ☐ c. Ease of Implementation
- ☐ d. Low Power



Your answer is correct.

The correct answer is:

Use of less pins

Question **3**

Incorrect

Mark -0.25 out of 1.00

Zero offset in a sensor is

- ☒ a. The smallest output change when input is zero
- ☐ b. The value of the output when the input is zero
- ☐ c. How often the readings are repeatable
- ☐ d. The difference in min and max values that can be measured



Your answer is incorrect.

The correct answer is: The value of the output when the input is zero

Question **4**

Correct

Mark 1.00 out of 1.00

What processing is beneficial before obtaining a output reading

- ☐ a. Amplification
- ☐ b. None
- ☒ c. Digitization
- ☐ d. Filtering out noise
- ☐ e. Inversion



Your answer is correct.

The correct answer is: Digitization

Question **5**

Correct

Mark 1.00 out of 1.00

The pull-up resistors perform which of these functions in I2C communication?

- ☐ a. Reduce power consumption
- ☐ b. Increase the speed of communication
- ☒ c. Drive the pin to logic High
- ☐ d. Perform voltage level conversion



Your answer is correct.

The correct answer is:

Drive the pin to logic High

Question **6**

Correct

Mark 1.00 out of 1.00

In SPI communication, the slave device is selected by the master using

- ☐ a. MISO Line
- ☐ b. Slave Address
- ☒ c. Slave select line
- ☐ d. MOSI Line



Your answer is correct.

The correct answer is:

Slave select line

Question **7**

Complete

Mark 1.00 out of 1.00

List five main sensors in the human body

- 1.Eyes
2. Ears
- 3 Nose
- 4 Skin
- 5 Tounge

Comment:

Question **8**

Correct

Mark 1.00 out of 1.00

Precision of a sensor is

- ☐ a. The smallest quantity that can be measured
- ☐ b. The difference in min and max values that can be measured
- ☒ c. How often the readings are repeatable
- ☐ d. The smallest change that can be measured



Your answer is correct.

The correct answer is: How often the readings are repeatable

Question **9**

Correct

Mark 1.00 out of 1.00

If we need to read temperature with a resolution of 0.01 C, using a 10-bit, 5V ADC, which of these sensitivities can be used?

- ☒ a. 0.488 V/C
- ☐ b. 10 mV/C
- ☐ c. 5 mV/C
- ☐ d. 5 V/C



Your answer is correct.

The correct answer is:

0.488 V/C



Question **10**

Correct

Mark 1.00 out of 1.00

It is important to specify the baud rate in UART communication to:

- ☒ a. Synchronize communication
- ☐ b. Save time
- ☐ c. Indicate Rx/Tx pins
- ☐ d. Indicate start/stop of communication



Your answer is correct.

The correct answer is:

Synchronize communication

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