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**Started on** Sunday, 24 October 2021, 8:32 PM

**State** Finished

**Completed on** Sunday, 24 October 2021, 8:45 PM

**Time taken** 13 mins 5 secs

**Grade** 19.00 out of 19.00 (100%)

Question **1**

Complete

Mark 1.00 out of 1.00

1,200mV is equal to:

Select one:

- ☐ a. 12v
- ☐ b. 0.12v
- ☐ c. 0.0012v
- ☒ d. 1.2v

Question **2**

Complete

Mark 1.00 out of 1.00

1mA is equal to:

Select one:

- ☐ a. 0.1A
- ☐ b. 0.00001A
- ☒ c. 0.001A
- ☐ d. 0.01A

Question **3**

Complete

Mark 1.00 out of 1.00

A 10k resistor in parallel with 10k produces:

Select one:

- ☐ a. 10k
- ☒ b. 5k
- ☐ c. 20k
- ☐ d. Cannot be determined

Question **4**

Complete

Mark 1.00 out of 1.00

A DC voltage . . .

Select one:

- ☒ a. remains constant
- ☐ b. rises and falls
- ☐ c. is a sinewave
- ☐ d. is an audio waveform

Question **5**

Complete

Mark 1.00 out of 1.00

A red-red-red-gold resistor in series with an orange-orange-orange-gold resistor produces:

Select one:

- ☐ a. 5k5 ohms
- ☒ b. 35,200 ohms
- ☐ c. 55k ohms
- ☐ d. None of the above

Question **6**

Complete

Mark 1.00 out of 1.00

Choose the set that has 4 resistors in ascending order.

Select one:

- ☒ a. 3R3 4R7 22R 5k6
- ☐ b. 4k7 10k 47R 330k
- ☐ c. 100R 10k 1M 3k3
- ☐ d. 22R 270k 2k2 1M

## Question 7

Complete

Mark 1.00 out of 1.00

For the AND gate, what is the output when both inputs are HIGH:

Select one:

- ☐ a. Cannot be determined
- ☐ b. LOW
- ☐ c. Can be HIGH or LOW
- ☒ d. HIGH

## Question 8

Complete

Mark 1.00 out of 1.00

For the XOR gate, what is the output when both inputs are HIGH:

Select one:

- ☐ a. Can be HIGH or LOW
- ☒ b. LOW
- ☐ c. Cannot be determined
- ☐ d. HIGH

## Question 9

Complete

Mark 1.00 out of 1.00

If a 10k resistor is placed across a 10v supply, the current will be:

Select one:

- ☐ a. 0.1mA
- ☐ b. 10mA
- ☐ c. 0.01mA
- ☒ d. 1mA

Question **10**

Complete

Mark 1.00 out of 1.00

If two resistors are placed in series, is the final resistance:

Select one:

- ☒ a. Higher
- ☐ b. Lower
- ☐ c. The same
- ☐ d. Cannot be determined

Question **11**

Complete

Mark 1.00 out of 1.00

The current requirement of a LED is:

Select one:

- ☐ a. 1.7mA
- ☐ b. 25mA
- ☐ c. 65mA
- ☒ d. Between 3 and 35mA

Question **12**

Complete

Mark 1.00 out of 1.00

To obtain a higher value of resistance, resistors are connected in:

Select one:

- ☐ a. Forward
- ☒ b. Series
- ☐ c. Reverse
- ☐ d. Parallel

Question **13**

Complete

Mark 1.00 out of 1.00

Using the color code below, determine the value of each of the resistors. Hint: You may want to use Lab 0 Appendix B for the resistor color code. Color code : red, orange, red

Select one:

- ☐ a. 230 ohms
- ☒ b. 2300 ohms
- ☐ c. 320 ohms
- ☐ d. 3200 ohms

Question **14**

Complete

Mark 1.00 out of 1.00

Using the color code below, determine the value of each of the resistors. Hint: You may want to use Lab0 Appendix B for the resistor color code. Color code : red-red-red-gold

Select one:

- ☐ a. 2.2 K ohms 2%
- ☐ b. 2.2 K ohms 1%
- ☒ c. 2.2 K ohms 5%
- ☐ d. 2.2 K ohms 10%

Question **15**

Complete

Mark 1.00 out of 1.00

Using the color code below, determine the value of each of the resistors. Hint: You may want to use Lab0 Appendix B for the resistor color code. Color code : brown, black, orange

Select one:

- ☐ a. 100 K ohms
- ☒ b. 10 K ohms
- ☐ c. 1 K ohms
- ☐ d. 100 ohms

Question **16**

Complete

Mark 1.00 out of 1.00

Using the color code below, determine the value of each of the resistors. Hint: You may want to use Lab0 Appendix B for the resistor color code. Color code : brown, black, orange

Select one:

- ☐ a. 100 K ohms
- ☒ b. 10 K ohms
- ☐ c. 100 ohms
- ☐ d. 1 K ohms

Question **17**

Complete

Mark 1.00 out of 1.00

Using the color code below, determine the value of each of the resistors. Hint: You may want to use Lab0 Appendix B for the resistor color code. Color code : orange, orange, orange

Select one:

- ☐ a. 330 ohms
- ☐ b. 330 K ohms
- ☒ c. 33 K ohms
- ☐ d. 3.3 K ohms

Question **18**

Complete

Mark 1.00 out of 1.00

What does the acronym LED mean?

Select one:

- ☐ a. Light Emitting Display
- ☐ b. Low Energy Display
- ☒ c. Light Emitting Diode
- ☐ d. Light Emitting Detector

Question **19**

Complete

Mark 1.00 out of 1.00

What is the approximate characteristic voltage that develops across A red LED?

Select one:

- ☐ a. 5 V
- ☐ b. 3.4 V
- ☒ c. 1.7 V
- ☐ d. 0.6 V

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