Module 3 Quiz

TOTAL POINTS 8

1. An EEPROM is:

   1 point

   - ○ a. non-volatile ⦿
   - ○ b. impossible to reprogram
   - ○ c. cheaper than Flash (per bit)
   - ○ d. not byte-addressable

2. A mask is:

   1 point

   - ○ a. a code used to hide data in memory
   - ⦿ b. a sequence of bits used to identify bits of interest
   - ○ c. part of a method for securing memory
   - ○ d. a secret key inside memory

3. Assume that you have a byte but you are interested in only the 2 least significant bits of the byte. Which hexadecimal number represents the mask that you would use to help you?

   1 point

   - ○ a. 0xFF
   - ○ b. 0x80
   - ⦿ c. 0x03
   - ○ d. 0x02

4. How many wires are used for communication in the I2C protocol?

   1 point

   - ⦿ a. 2
   - ○ b. 3

c. 4

d. 5

5. Which role describes a node that places data on the bus?   1 point

○ a. Master

○ b. Slave

◉ c. Transmitter

○ d. Receiver

6. When is an Acknowledge bit sent?   1 point

○ a. at the beginning of each message

○ b. at the end of each message

○ c. before the address is sent

◉ d. after each byte is sent

7. True or False: The Wire.write() function buffers data before sending it.   1 point

◉ True

○ False

8. True or False: During normal operation, the SDA line should not change while the SCL line is high.   1 point

◉ True

○ False

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