Week 3 Quiz

1. An EEPROM is:

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

2. A mask is:

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?

- 0xFF
- 0x80
- 0x03
- 0x02

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

a. 2
b. 3
c. 4
d. 5

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

a. Master
b. Slave
c. Transmitter
d. Receiver

6. When is an Acknowledge bit sent?

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.

- True
- False

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

- True
- False