

QZ-EE-003 Electricity Final Quiz

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* Required

Name

1. Name? *

Questions

2. I need to make a circuit that will allow me to vary the intensity of light to an LED using programming only. Which pin should I use on the arduino?

Mark only one oval.

- ☐ D6 (PWM)
- ☐ A3
- ☐ D12 (No PWM)
- ☐ 5V

3. What does the symbol (~) mean on an arduino board?

Mark only one oval.

- ☐ That the pin can be grounded
- ☐ That the pin has PWM
- ☐ That the pin can be used as an analog Input
- ☐ That the pin does not have PWM

4. I need to make a circuit that will allow me to rotate a device in the real world. I should use a(n):

Mark only one oval.

- ☐ Potentiometer
- ☐ Inductor
- ☐ Servo Motor
- ☐ Push Button

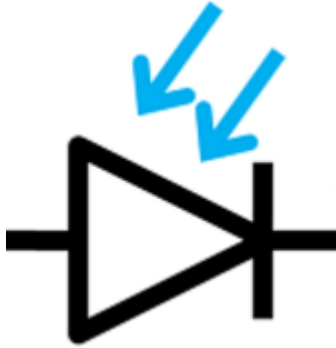
5. What does MOSFET stand for?

Mark only one oval.

- ☐ Metal Oxide Semiconductor Field Effect Transistor
- ☐ Material Oxidation Surface Fluorine Effect Transistor
- ☐ Magnetic Ordinary Superposition Field Electro Transistor
- ☐ Mostly Open Survived Fleet Electron Transistor

6. What is the special thing a zener diode does?*Mark only one oval.*

- ☐ Create light
- ☐ Turn light into electricity
- ☐ Allow current to flow backwards
- ☐ Allow current to flow forwards

Diode ID**Diode picture****7. What type of diode is this?***Mark only one oval.*

- ☐ Zener Diode
- ☐ Normal Diode
- ☐ Light Emitting Diode
- ☐ Photo Diode

8. What does this diode do?*Mark only one oval.*

- ☐ Turn light into electricity
- ☐ Allow current to flow forwards
- ☐ Allow current to flow backwards
- ☐ Turn electricity into light

Transistor ID**Transistor Picture**

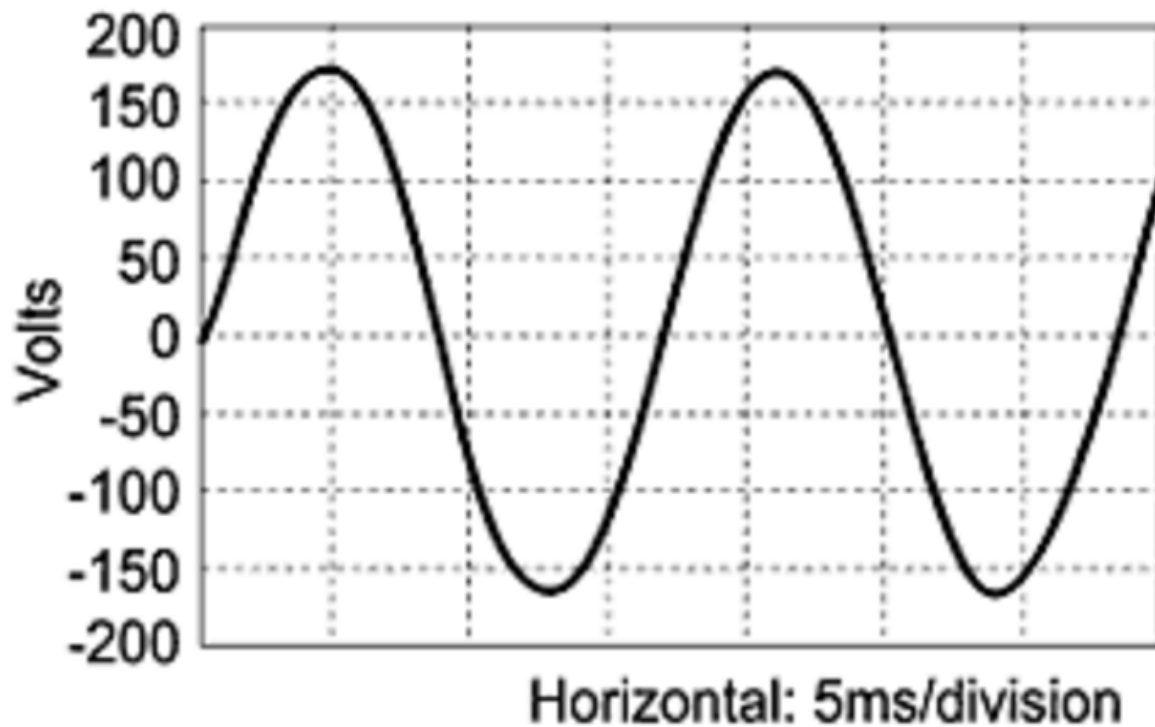


9. What type of transistor is this?

Mark only one oval.

- ☐ MOSFET
- ☐ PNP
- ☐ PNP
- ☐ NPN

Signals



10. What is the Amplitude?*Mark only one oval.*

- ☐ 320
- ☐ 160
- ☐ 300
- ☐ 150

11. What is the Frequency?*Mark only one oval.*

- ☐ 16 ms
- ☐ 30 Hz
- ☐ 60 Hz
- ☐ 5 ms

12. Is there a phase offset?*Mark only one oval.*

- ☐ Yes
- ☐ No

13. What is the Vpk?*Mark only one oval.*

- ☐ 160
- ☐ 150
- ☐ 320
- ☐ 300

14. What is the Vpp?*Mark only one oval.*

- ☐ 300
- ☐ 320
- ☐ 160
- ☐ 150

15. What is the Vavg?*Mark only one oval.*

- ☐ 202
- ☐ 160
- ☐ 101
- ☐ 150

16. What is the Vrms?*Mark only one oval.*

- ☐ 113
- ☐ 226
- ☐ 150
- ☐ 160

Programming

17. What is the proper syntax for a digital output command?*Mark only one oval.*

- ☐ Digitalwrite(3,200);
- ☐ digitalWrite(3,HIGH);
- ☐ digitalWrite(3,200);
- ☐ Digitalwrite(3,HIGH);

18. What is the proper syntax for an analog output command?*Mark only one oval.*

- ☐ Analogwrite(3,200);
- ☐ analogWrite(3,LOW);
- ☐ Analogwrite(3,LOW);
- ☐ analogWrite(3,200);

19. You are trying to upload your code to the board, and it says "Serial port 'COM1' not found". What do you do?*Mark only one oval.*

- ☐ Check to make sure you are not missing any semicolons
- ☐ Check to make sure you have selected COM1 as your port
- ☐ Check to make sure you have brackets in your loop
- ☐ Check to make sure your IF statement is written correctly

20. Which of these is the proper way to specify a comment?*Mark only one oval.*

- ☐ -- comment
- ☐ // comment
- ☐ ** comment
- ☐ xx comment

21. Which of these means AND in arduino?*Mark only one oval.*

- ☐ ||
- ☐ +-
- ☐ <>
- ☐ &&
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