A Quiz About ECE (Electrical & Computer Engineering)
1. What electrical component stores energy in an electric field? a. Resistor b. Capacitor c. Inductor d. Diode
2. Which of the following battery types is not rechargable? a. Nickel-cadmium b. Carbon-zinc c. Lead-acid d. Lithium-ion
3. How is the cathode lead of a semiconductor diode usually identified? a. With the word cathode b. With a stripe c. With the letter C d. All of the above
— H. What type of electrical component stores energy in a magnetic field? a. Resistor b. Capactor c. Inductor d. Diode
5. If the numbers 104 are on a ceranic capacitor what is its value? a. O.IMF b. 1000 pF c. InF d. 10MF
6. What is the electrical term for the electromotive force (EMF) that causes electron flow? a. Voltage b. Ampère-hour c. Capacitance d. Inductance

- 7. Which of the following is used together with an inductor to make a tuned circuit?
a. Resistor b. Zener Diode c. Potentiometer d. Capacitor
8. If a resistor has the color blue, grey, orange (in that order) what is its value?
α. 690 Ω 6. 68K Ω c. 5.7K Ω d. 570K Ω
— 9. What type of electrical component consists of two or more conductive surfaces separated by an insulator?
a. Resistor b. Potentiometer c. Oscillator d. Capacitor
10. What is the output of this XOR gate?
a. 1 6. 0 6. 2 61
11. What does this symbol represent?
a. Darlington Transistor b. MOSFET c. 2N2222 Transistor d. Diode ++
12. Who invented AC?
a. Michael Faraday b. William Shockley C. Nikola Tesla d. Alessando Volta

True or False __ 13. What is the output of this logic gate? True True? — 14. 15 mA of current would be flowing through a 330 A 510 } 33an resistor with a 5 volt source. ____ 15. The first battery was dated back to 250 BCE and was suspected to be used to electroplate statues. ___ 16. High Voltage worit Kill you, only high current. ___ 17. The first LED produced was a blue LED. _ 18. PWM is identical to an Analog Signal. ___ 19. I Ampis equivalent to 1 1/s 20. The Voltage required across a. LED is always 2.2 v (regardless of color) "Regret is unnecessary. Think

before ya act. "-William Shockley

"I think the varred bachgrands in the beginning were a plus. It took a while for people to understand what they were trying to do and get started, but it did provide for a lot of new ideas" - Jack Kilby "One must be sane to think clearly, but one can think deeply and be quite insane."

- Nikolam Tesla

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The human body, when dry, acts like a 100K Ohm resistor. When wet or broken the bodye's resistance drops to 1000 Ohms.

