1. What type of power supply requires the use of a center tap transformer?

2. To check a diode, one would use a?

3. What are the fins used for on a transformer?

4. Signal Dampening in an electronic recorder?

5. What is the waveform for full wave rectification?

6. If a 10Ω, 20Ω, 40Ω, and 80Ω resistors are connected in series, which will dissipate the most heat?

7. What will a P/I transmitter do?

8. If the voltage remains constant and the resistance increases, what will the current do?

9. What current will a 600W solder iron draw for voltage?

10. The diode of a PNP transistor is always biased?

11. Beta gain of a transistor is?

12. What is always constant in a series circuit?

13. What is the bias of an NPN transistor?

14. Picture of a weight scale on a conveyor belt. Required flow can’t be obtained, what should be done?

15. If you have a tank and want to measure the weight in and one end is a fulcrum and the other end has two sensors under it, what do you read?

16. A rotary weight gauge has a LVDT. What must be done first for the system to operate correctly?
1. Full Wave
2. Ohmmeter
3. Heat dissipation
4. Adjust the gain
5. A

\[
\text{ANSWER KEY}
\]

6. \( 80 \, \Omega \) \( P=I^2 \times R \)

7. Convert a pneumatic signal to an electronic DC Current

8. Decrease, \( I= \frac{V}{R} \)

9. \[ P = E \times I \]
\[ I = \frac{600W}{110V} \]
\[ I = 5.45A \]

10. Forward (negative) Pointing in Proudly

11. \[ \frac{I_c}{I_b} \]

12. Current

13. Reverse (positive) Not Pointing in

14. You need to increase the speed of the belt

15. The average of the two meters

16. Center core – of the coil to get a 0 output