

## Level I CEET - Basic Electronics – Power Supplies – Q and A Review

1. A Power Supply can be either \_\_\_\_\_ or \_\_\_\_\_ voltage.
2. Power Supplies that turn AC into DC use a \_\_\_\_\_ to convert the voltage to DC.
3. A \_\_\_\_\_ is used to step up or step down AC Current in a power supply.
4. Capacitors help to smooth out the \_\_\_\_\_ in a DC power supply.
5. Pure DC looks like a \_\_\_\_\_ on an oscilloscope screen.
6. A regulated power supply keeps voltage or current \_\_\_\_\_ under load.
7. True or False A resistor can be used to help regulate a DC power supply.
8. A PI filter requires 3 components for proper operation in a DC power supply, list them:
  - a. \_\_\_\_\_ b. \_\_\_\_\_ c. \_\_\_\_\_
9. A \_\_\_\_\_ power supply requires a center tapped transformer.
10. A full wave bridge rectifier uses \_\_\_\_\_ diodes in its construction.
11. A power supply that is said to be variable means that its voltage can be \_\_\_\_\_.
12. A device capable of running on a 12VDC Car Battery requires a \_\_\_\_\_ VDC power supply.
13. AC Hum in a radio or amplifier could be caused by a bad \_\_\_\_\_.
14. A full wave power supply uses \_\_\_\_\_ diodes in its construction.
15. True or False The PIV of a diode is its Peak Inverse Voltage or reverse voltage rating.
16. A voltage regulator has 3 connections, please list each below:
  - a. \_\_\_\_\_ b. \_\_\_\_\_ c. \_\_\_\_\_
17. Batteries are a “portable” form of \_\_\_\_\_ power supply.
18. The device used to convert DC back into AC is called an \_\_\_\_\_.
19. The Sine Wave is associated with \_\_\_\_\_ current.

**WORD BANK:**

Capacitor	AC	Straight Line	DC	Inductor	Full Wave	Constant
Changed	Diode	Rectifier	Ripple	input	reverse	ground
output	Inverter	Converter		regulator	Resistor	Voltage