



Name \_\_\_\_\_

Advanced Photovoltaic Systems

Diablo Valley College

AET 230-8204

Sean White

### Quiz #5-May 9, 2009

1. How many series strings of batteries is best
  - a. 1
  - b. 5
  - c. 10
  - d. 20
2. When you wire batteries in series
  - a. The voltage is the sum of the voltages of the batteries in series
  - b. The amperage is the sum of the amperages of the batteries in series
  - c. The voltage does not increase
  - d. You should increase the amperage by 120%
3. A benefit to an MPPT charge controller
  - a. You can have lower voltage, hence smaller wires
  - b. It does not have to be grounded and a bipolar system is better
  - c. It converts DC to AC, so it is better
  - d. You can have an array voltage that is considerably higher than the battery bank voltage
4. A 12 volt lead acid battery has \_\_\_\_\_ cells.
  - a. 2.1 volts
  - b. .5 to .6 volts
  - c. 6
  - d. 24
5. As a battery bank loses it's storage, it's voltage decreases, therefore if it has an inverter attached to it that was putting out 1000 watts the whole time.
  - a. the amperage in the conductors would decrease
  - b. the amperage in the conductors would increase
  - c. the amperage would stay the same
  - d. it could not supply the same power to the load if the voltage decreases