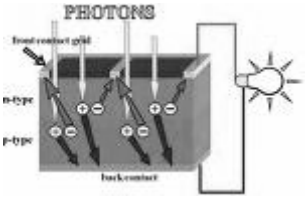

Name_____

Advanced Photovoltaic Systems
Diablo Valley College
AET 230-8204
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Quiz #1-April 4, 2009

1. If your magnetic compass reads 180 degrees in Pleasant Hill, CA, then at solar noon, the sun would be
    a. Where your compass reads 180 degrees
    b. 15 degrees to the East of 180
    c. 15 degrees to the West of 180
    d. Where your compass reads 195 degrees

2. The California Solar Initiative
    a. Increases your money for installing a PV system if you wait longer
    b. Makes you pay less taxes in a residential situation
    c. Is based on design of a system
    d. Works like a Feed in Tariff (FIT)

3. The Federal incentive for PV for residential customers
    a. Has worsened over the last year
    b. Is based on a Production Tax Credit, just like it is for wind energy
    c. Is capped at $2000
    d. Is not in the form of a grant

4. When you are designing a large flat rooftop PV system and are trying to decide to tilt the modules at 0 degrees, 10 degrees or 20 degrees, what considerations do you have to make?
    a. More tilt requires less space, because you can fit the modules closer together if they are more vertical
    b. You can fit more modules flat on a flat roof
    c. The angle does not make a difference
    d. 10 degrees will capture the most sun at latitude 38

5. 2:1 shading means
    a. The shading object should be twice as far away as the height it is above the PV
    b. The height of the shading object should be twice as tall as the distance of the tree, etc.
    c. The shading object should be twice as far away as the height it is
    d. The profile angle should be 22.5 degrees