



Name _____

Advanced Photovoltaic Systems

Diablo Valley College

AET 230-8204

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Quiz #2-April 18, 2009

1. An inverter
 - a. Converts AC to DC
 - b. Converts DC to AC**
 - c. Is wired in series to the grid
 - d. None of the above are correct

2. MPPT
 - a. Is an abbreviation for maximum payback period time
 - b. Changes input voltage in order to maximize power from PV on the IV curve**
 - c. Is only used on stand-alone PV systems
 - d. Works like a Feed in Tariff (FIT)

3. When comparing crystalline to thin film PV
 - a. Crystalline has better thermal characteristics
 - b. Thin film is less expensive per STC watt**
 - c. Thin film is always made primarily with silicon
 - d. Crystalline is less expensive per PTC watt

4. The p-n junction of a polycrystalline solar cell
 - a. Is where electricity is converted into photons at a 18-20% efficiency
 - b. Is where the boron and phosphorous doped layers meet**
 - c. Is permanently negative
 - d. Converts the electrons coming from the sun into a power factor of 1

5. A high frequency inverter is
 - a. Lighter than a low frequency inverter**
 - b. Heavy because of the iron core
 - c. Better for shading
 - d. Illegal in the US