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B-9

Assignment - 2

1→ (CdTe) photovoltaics is a technology that used the compound cadmium telluride as the semiconductor material in photovoltaic cells that convert sunlight into electricity. Cadmium telluride offers some advantages over crystalline silicon, the substrate originally used in the manufacture of PV cells. Thin layers of cells can be made extremely thin on the order of few micrometers, thinner than a typical Si layer. It offers better efficiency than Si at high temperatures and low levels of illumination. In addition, CdTe PV cells require less energy to produce than Si PV cells. So cd Te technology offers promise for future generation if only because conventional energy sources continue to suffer increasing scrutiny, regulation and price volatility.

Ans-2) CIGS solar cells are made from a compound called copper gallium indium diselenide sandwiched between conductive layers. This material can be deposited on substrates

such as glass, plastic steel, and aluminium and when deposited on a flexible backing, the layers are thin enough to allow full panels flexibility. The primary disadvantage of CIGS panels is their price while CIGS solar panels are an exciting option, they are already very expensive to produce, so the point where they can't compete with traditional silicon or cadmium telluride panels