



Department of Electrical Engineering

Question Bank – INCES – Unit 2

Que1: What are the different forms of solar radiation? What is total radiation?

Que2: What are the terms related to solar radiation geometry?

Que3: Explain the following terms:

- 1) Solar altitude angle
- 2) Solar Zenith angle
- 3) Declination
- 4) Solar azimuth angle

Que4: What is a solar energy collector? Explain the types of solar energy collector? Draw a neat sketch of any one type of collector.

Que5: What are concentrating and non-concentrating type of solar collector? What is the difference between line and point focus collectors?

Que6: How is parabolic collector different from heliostat collector?

Que7: Explain solar pond and its zones with a neat sketch diagram? Write down the applications, merits and demerits of a solar pond.

Que8: Explain the terminologies associated with a solar power plant:

- 1) Solar Cell
- 2) Solar Module/ PV Module
- 3) Solar Array/PV Array

Que9: What are the different types of PV generating system? Explain the difference between grid connected system and stand-alone system with block diagrams.

Que10: What are the different variations in stand alone system based on operations?