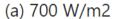
#### The energy radiated by sun on a bright sunny day is approximately



- (b) 800 W/m2
- (c) 1 kW/m2
- (d) 2 kW/m2

#### Ans: c

The function of a solar collector is to convert......

- A. Solar Energy into Electricity
- B. Solar Energy radiation
- C. Solar Energy thermal energy
- D. Solar Energy mechanical energy

## √ View Answer

C.Solar Energy thermal energy

The output of solar cell is of the order of.......

- A. 1 W
- B. 5 W
- C. 10 W
- D. 20 W

## √ View Answer

# A.1 W

Flat plate collector absorbs......

- A. Direct radiation only
- B. Diffuse radiation only
- C. Direct and diffuse both
- D. All of the above

# √ View Answer

C.Direct and diffuse both

Photovoltaic cell or solar cell converts......

- A. Thermal energy into electricity
- B. Electromagnetic radiation directly into electricity
- C. Solar radiation into thermal energy
- D. Solar radiation into kinetic energy

### √ View Answer

B.Electromagnetic radiation directly into electricity

Temperature attained by a flat-plate collector is of the.......

- A. Order of about 90<sup>0</sup>C
- B. Range of 100<sup>0</sup>C to 150<sup>0</sup>C
- C. Above 150<sup>0</sup>C
- D. None of the above

√ View Answer

A.Order of about 90°C

Solar cells, for power generation, entail the following major disadvantages.......

- A. Variable power
- B. High cost
- C. Lack of availability
- D. Large area requirement

√ View Answer

B.High cost

# Which country generate all their electricity using renewable energy?

- (a) Iceland
- (b) England
- (c) USA
- (d) China

Answer: Option (a)

Which of the area can often displaces conventional fuel by renwable energy?

- (a) Space heating
- (b) Transportation
- (c) Electricity generation
- (d) All of above

Answer: Option (d)

Concentrated solar power (CSP) systems use to focus a large area of sunlight into a small beam.
(a) Lenses
(b) Mirrors
(c) Trackers
(d) All of above
Answer: Option (d)
What is a disadvantage of renewable energy?
(a) High pollution
(b) Region specific availability
(c) High running cost
(d) Unreliable supply
Answer: Option (d)
A Solar cell is an electrical device that converts the energy of light directly into electricity by the
(a) Photovoltaic effect
(b) Chemical effect
(c) Atmospheric effect
(d) Physical effect

Answer: Option (a)