

Unit 3 - Week 2

Course outline

How to access the portal

Week 1

Week 2

- Elements and Technologies of Smart Grid System-II
- Distributed Generation Resources-I
- Distributed Generation Resources-II
- Distributed Generation Resources-III
- Distributed Generation Resources-IV
- Quiz : Assignment 2
- Solution for Assignment - 2

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

DOWNLOAD VIDEOS

WEEKLY FEEDBACK

Assignment 2

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2019-08-21, 23:59 IST.

1) Installed capacity of solar power in India till 2016

1 point

- 9.01 GW
- 10.3 GW
- 8.45 GW
- 6.54 GW

No, the answer is incorrect.
Score: 0

Accepted Answers:
9.01 GW

2) Example of the second generation solar cell

1 point

- Silicon Wafer-based solar cell
- Advanced thin-film solar cell
- Thin-film solar cell
- None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Thin-film solar cell

3) The conversion efficiency of a polycrystalline silicon solar cell is

1 point

- 12.5-15 %
- 11-14 %
- 10-13 %
- 9-12 %

No, the answer is incorrect.
Score: 0

Accepted Answers:
11-14 %

4) A PV array has the open-circuit voltage 370V, short circuit current 28 A and maximum power is 8kW then find the fill factor

1 point

- 0.66
- 0.55
- 0.77
- 0.88

No, the answer is incorrect.
Score: 0

Accepted Answers:
0.77

5) What is the significance of series resistance in solar cell modeling

1 point

- Represent load resistance
- Represent the wire resistance
- Represent the top and rare contact resistance
- All of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Represent the top and rare contact resistance

6) With increase in solar irradiance level, the cell open circuit voltage (V_{oc}) and short circuit current (I_{sc}) will be

1 point

- V_{oc} increases and I_{sc} decreases
- V_{oc} decreases and I_{sc} increases
- Both decrease
- Both increase

No, the answer is incorrect.
Score: 0

Accepted Answers:
Both increase

7) Which state produces maximum wind energy in India

1 point

- Maharashtra
- Tamil Nadu
- Gujarat
- Rajasthan

No, the answer is incorrect.
Score: 0

Accepted Answers:
Tamil Nadu

8) Type of generator used in wind turbine

1 point

- DC generator
- Synchronous generator
- Double fed induction generator
- none of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Double fed induction generator

9) The total power of a wind stream is proportional to

1 point

- velocity of stream
- (velocity of stream)²
- (velocity of stream)³
- 1/(velocity of stream)

No, the answer is incorrect.
Score: 0

Accepted Answers:
(velocity of stream)³

10)Maximum efficiency of wind turbine is

1 point

- 69.3
- 59.3
- 70.3
- 65.3

No, the answer is incorrect.
Score: 0

Accepted Answers:
59.3