

Unit 2 - Week 1

Course outline

How to access the portal

Week 1

- Introduction to Smart Grid - I
- Introduction to Smart Grid - II
- Architecture of Smart Grid System
- Standards for Smart Grid System
- Elements and Technologies of Smart Grid System-I
- Quiz : Assignment 1
- Solution for Assignment - 1

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

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WEEKLY FEEDBACK

Assignment 1

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

Due on 2019-08-14, 23:59 IST.

1) The typical voltage level of the primary customer is 1 point

- 66kV
- 11kV
- 400V
- None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
11kV

2) Which of the following is not the characteristic of the existing grid 1 point

- Manual Monitoring
- Failures and Blackouts
- Self-healing
- One way communication

No, the answer is incorrect.
Score: 0

Accepted Answers:
Self-healing

3) In which of the following methods, the data and power both are transferred with the same conductor 1 point

- Fibre optic communications
- Cognitive radio
- Power line communication
- Cellular communication systems

No, the answer is incorrect.
Score: 0

Accepted Answers:
Power line communication

4) Which of the following may not be a barrier in the smart grid technologies 1 point

- Lack of Infrastructure
- Lack of financial resources
- Lack of regulatory framework
- Integration of the grid with very small renewable generation

No, the answer is incorrect.
Score: 0

Accepted Answers:
Integration of the grid with very small renewable generation

5) According to IRIG B, Time synchronization accuracy requirement is upto 1 point

- 0.5 μ s
- 1 μ s
- 2 μ s
- 0.1 μ s

No, the answer is incorrect.
Score: 0

Accepted Answers:
1 μ s

6) The boundaries of the customer domain typically consider which type of meters 1 point

- Energy Services Load
- Energy Services Interface
- Energy Services Demand
- Wattmeter

No, the answer is incorrect.
Score: 0

Accepted Answers:
Energy Services Interface

7) The transmission network is typically operated by 1 point

- Load Dispatch Centers
- Distribution Company
- Regional Load Dispatch Center
- Generation Company

No, the answer is incorrect.
Score: 0

Accepted Answers:
Regional Load Dispatch Center

8) Service Provider communicates with which domain? 1 point

- Bulk generation
- Distribution
- Transmission
- Customer

No, the answer is incorrect.
Score: 0

Accepted Answers:
Customer

9) Energy Services Interface (ESI) communicates with other domain via: 1 point

- AMI infrastructure or Internet
- Home Area Network
- Local Area Network
- None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
AMI infrastructure or Internet

10) In the following which standard represent the Practice for Interconnecting Distributed Resources with Electric Power Systems Distribution Secondary Networks. 1 point

- IEEE Standard 1547.3
- IEEE Standard 1547.4
- IEEE Standard 1547.5
- IEEE Standard 1547.6

No, the answer is incorrect.
Score: 0

Accepted Answers:
IEEE Standard 1547.6