

Unit 9 - Week 8

Course outline

How to access the portal

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Week 2

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Week 8

Energy Management

Design of Smart Grid and Practical Smart Grid Case Study-I

Design of Smart Grid and Practical Smart Grid Case Study -II

System Analysis of AC/DC Smart Grid

Conclusions

Quiz : Assignment 8

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WEEKLY FEEDBACK

Assignment 8

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

Due on 2019-09-25, 23:59 IST.

1) Which of the following is false statement with respect to the power flow control strategy adopted for managing energy of the DC microgrid? **1 point**

- Peak demand reduction
- Smooth transition between different modes
- Shortens life of the storage system
- Unity power factor operation

No, the answer is incorrect.
Score: 0

Accepted Answers:
Shortens life of the storage system

2) Charging of the batteries is preferred during which of these modes mentioned below? **1 point**

- Peak hour mode in the case of grid connected operation
- Excess demand in the case of isolated mode
- Off peak hour mode in the case of grid connected operation
- None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Off peak hour mode in the case of grid connected operation

3) The number of quadrant of power amplifier operation is? **1 point**

- Single quadrant
- Double quadrant
- Triple quadrant
- Four quadrant

No, the answer is incorrect.
Score: 0

Accepted Answers:
Four quadrant

4) The GTAO, GTAI, GTDI and GTDO cards belong to **1 point**

- RTDS
- Power Amplifier
- Programmable Loads
- PV emulator

No, the answer is incorrect.
Score: 0

Accepted Answers:
RTDS

5) Diesel generator is capable of **1 point**

- Injecting active power only
- Injecting active power at the cost of absorbing reactive power always
- Absorbing reactive power only
- Injecting both active and reactive power

No, the answer is incorrect.
Score: 0

Accepted Answers:
Injecting both active and reactive power

6) The total number of buses in the Indian network is **1 point**

- 6034 buses
- 6032 buses
- 6033 buses
- 6030 buses

No, the answer is incorrect.
Score: 0

Accepted Answers:
6034 buses

7) In the DC voltage bus the following parameter is known **1 point**

- DC power
- Voltage
- Reactive power
- Frequency

No, the answer is incorrect.
Score: 0

Accepted Answers:
Voltage

8) Distributed generations capable of delivering active power but consuming reactive power is termed as **1 point**

- Type2
- Type1
- Type3
- Type4

No, the answer is incorrect.
Score: 0

Accepted Answers:
Type4

9) Full form of SCADA is **1 point**

- Supervisory control and digital acquisition
- Supervisory control and data acquisition
- Supplementary control and data acquisition
- Supplementary control and digital acquisition

No, the answer is incorrect.
Score: 0

Accepted Answers:
Supervisory control and data acquisition

10) Which of the following is not the smart grid R&D area in the field of ICT and Cyber security **1 point**

- Threat models and Cyber security
- Information privacy and handling challenges
- Cloud Computing, data storage and big data analytics
- Ancillary services of converters

No, the answer is incorrect.
Score: 0

Accepted Answers:
Ancillary services of converters