

X



reviewer4@nptel.iitm.ac.in ▼

Courses » Advances in UHV Transmission and Distribution

Announcements **Course** Ask a Question Progress FAQ



Unit 6 - Module-5 : Week-5

Register for Certification exam

Course outline

How to access the portal

Module-1 :
Week-1

Module-2 :
Week-2

Module-3 :
Week-3

Module-4 :
Week-4

Module-5 :
Week-5

- Lecture-21
Design Optimization for UHV towers
- Lecture-22
Introduction to 1100 kV HVDC
- Lecture-23
Introduction to HV Substations
- Lecture-24
Types of Substations, comparison

WEEK 5

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment. **Due on 2019-03-06, 23:59 IST.**

1) The capacity of a single 765kV substation capacity should not exceed **1 point**

- 2500MVA
- 1000MVA
- 2000MVA
- 765MVA

No, the answer is incorrect.
Score: 0

Accepted Answers:
2500MVA

2) The short circuit levels specified for 400kV system are **1 point**

- 30kA
- 40kA
- 100kA
- 25kA

No, the answer is incorrect.
Score: 0

Accepted Answers:
40KA

3) In comparison to Air insulated substation Gas Insulated substation are more advantageous **1 point** due to

- Higher cost, Reliability, More Corona & EMC
- Compactness, No maintenance, Issues with Corona & EMC

© 2014 NPTEL - Privacy & Terms - Honor Code - FAQs -

A project of



In association with



Funded by

Module-6 :
Week-6

Module-7 :
Week-7

Module-8 :
Week-8

TEXT
TRANSCRIPTS

DOWNLOAD
VIDEO

Interaction
session

ce De

Compactness, Reliability, low Corona & EMC

4) Major factors influencing the Selection of busbar scheme in a substation design are .

1 point

- Conductor type & size, reliability, operational flexibility etc
- Space Availability, Cost, reliability, Rating of the conductor etc
- System safety, reliability, operational flexibility etc
- Busbar size, reliability, operational flexibility etc

No, the answer is incorrect.

Score: 0

Accepted Answers:

System safety, reliability, operational flexibility etc

5) Purpose of Residual voltage transformer or Neutral current transformer

1 point

- Detect neutral displacement due to unbalance caused by capacitor banks
- To improve the power factor of the system
- To improve the compensation for base and peak load conditions
- None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

Detect neutral displacement due to unbalance caused by capacitor banks

6) To limit the inrush current surges

1 point

- Damping Resistors are used
- Damping reactors are connected in series with capacitors
- Damping resistors and reactors are used in parallel
- None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

Damping reactors are connected in series with capacitors

7) FACTS technology is adopted to

1 point

- Enhance power transmission capability of existing transmission system
- Boost power generation capability
- For better control in increasing the generation capability
- None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

Enhance power transmission capability of existing transmission system

8) Transient recovery voltage is

1 point

- that appears across the terminals after the current interruption
- that appears across the terminals after the lightning strikes



- that appears across the terminals after the circuit breaker operates
- None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

that appears across the terminals after the current interruption

9) Standard test waveforms for transients are classified as

1 point

- Oscillatory and PF overvoltages
- Slow front, Fast front & very fast front
- PF, LI, SI over voltages
- None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

Slow front, Fast front & very fast front

10) Lightning arrester plays a major role in control and :

1 point

- Protection for Substation Building
- Protection for Oscillatory voltages
- Protection for Over Currents
- Protection for Over voltages

No, the answer is incorrect.

Score: 0

Accepted Answers:

Protection for Over voltages



Previous Page

End