

## Unit 2 - Introduction and Design of Transmission/Distribution Insulators

### Course outline

How does an NPTEL online course work?

#### Introduction and Design of Transmission/Distribution Insulators

- Introduction to Transmission and distribution Insulators
- Manufacturing Process of Ceramic, Glass and
- Manufacturing process for Polymeric Insulators
- Design Considerations of Transmission Insulators

Quiz : Week 1 Assessment

#### Field Experience and contamination issues on Transmission Insulators

#### Reliability and Testing on Transmission Insulators

#### Cleaning and Coating methods, Introduction to hybrid Insulators

#### Text Transcripts

#### Weekly Feedback forms

#### Video download

## Week 1 Assessment

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

**Due on 2020-02-12, 23:59 IST.**

1) The maximum operating voltage of 765kV transmission system is

1 point

- 420kV
- 800kV
- 1200kV
- 700kV

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
800kV

2) The Right of Way (ROW) for a 1200kV AC transmission line is

1 point

- 90 meters
- 70 meters
- 50 meters
- 120 meters

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
90 meters

3) The approximate Power transfer capability of a  $\pm$  800kV transmission line is

1 point

- 6200MW
- 8000MW
- 800MW
- 80MW

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
6200MW

4) One 765 kV line can carry more than \_\_\_\_ times power carried by one 400 kV line

1 point

- three
- two
- one
- four

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
four

5) Surge impedance of transmission line is approximately equal to \_\_\_\_ Ohms

1 point

- 500-600
- 250-400
- 50-100
- 100-150

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
250-400

6) The highest percentage of electricity consumption in the country is used by

1 point

- Agricultural activity
- Commercial
- Domestic
- Industry

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
Industry

7) The function of Insulator is to electrically isolate the conductor from

1 point

- Tower
- Ground
- Both tower and ground
- Contamination

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
Tower

8) Factors responsible for insulation design below 66kV are

1 point

- Mechanical clearances
- Corona
- Contamination
- Switching transients

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
Corona

9) Above 800kV the major factor responsible for insulation design is

1 point

- Lightning surges
- Switching surges
- Pollution
- Corona

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
Pollution

10) Insulators should be able to withstand

1 point

- Tension loads
- Compression loads
- Dynamic loading
- all

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
all