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so many fake sites. this is the first one which worked! Many thanks

UNIT I

1. State the different types of over voltages occurring in power system and mention their magnitude.

(i) Switching an open ended line with

- a) Infinite bus as source with trapped charges on line. - 4.1
- b) Infinite bus as source with trapped charges on line. -2.6
- c) Deenergizing an unfaulted line with a line to ground fault. - 1.3
- d) Deenergizing an unfaulted line with a restrike in the circuit breaker - 2.7

(ii) a) Switching a 500 kV line through an auto transformer 220 kV / 500 kV

- b) Switching a transformer terminated line. - 2.2
- c) Series capacitor compensated line with 50 % compensation. - 2.2
- d) Series capacitor compensated line with shunt reactor compensation. - 2.6

(iii) High speed reclosing of the line after fault clearance. - 3.6

2. Define indirect stroke.

In indirect stroke a negative charge in a cloud cause bound positive charges on the conductor of a nearby transmission line.

3. What are the techniques to be adopted for controlling the switching over voltages?

- a) Installation of shunt reactors.
- b) Use of pre insertion resistor.
- c) Synchronous reclosing and simultaneous operation of CB at both end.
- d) Use of surge arrester and elimination of trapped charges by line

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