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For Questions, Notes, Syllabus & Results

EE 8402 Transmission and Distribution

Important 13mark questions

<u>Unit I</u>

- 1. Draw and explain the structure of typical electrical power system with various voltage levels.
- 2. Explain the structure of electric power system in detail.

<u>Unit II</u>

- 1. Derive an expression for capacitance of a three-phase unsymmetrically spaced overhead line.
- 2. Derive the expression for calculating the internal and external flux linkages for a conductor carrying current. Use these expressions to derive the equation for the inductance of a single phase transmission line.

<u>Unit III</u>

- 1. Draw the phasor diagram of a short transmission line and derive an expression for voltage regulation and transmission efficiency.
- 2. What are the different methods available for Voltage Control and explain any one method?

<u>Unit IV</u>

- 1. What are the different types of testing of Insulators? Explain any one method.
- 2. With neat diagram, explain the various methods of grading of underground cables.

<u>Unit V</u>

- 1. Describe about the various methods of neutral grounding in detail.
- 2. Explain the key points to be considered for tower spotting. Also list the basic types of tower based on circuits used.