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PS 7006 Industrial Power System Analysis and Design Important 13 Mark Questions

<u>Unit I</u>

- 1. What are the various starting methods used for large motor and describe them in detail?
- 2. Explain the calculation of acceleration time for motor from the motor equation of motion; also specify the net motor torque.
- 3. Explain the various starting methods for induction motor.
- 4. Explain the calculation steps adopted for computing acceleration time, also provide the silent features of computer aided analysis.
- 5. Classify squirrel cage motor based on Torque speed characteristics?

Unit II

- 1. What are the various approaches available in the capacitor placement/installation in the power system? Describe them.
- 2. Demonstrate about the frequency scan analysis.
- 3. Show the concept of back-to-back switching with two 60 MVAR capacitor banks with series reactor in the switching circuit. Assume the necessary parameters and explain.
- 4. Explain about the Voltage Magnification Analysis.
- 5. Discuss the power factor correction capacitor project with the help of case study?

Unit III

- 1. What are the various 'Harmonics Filters'? Explain them in detail.
- 2. Explain about the various indexes related with Harmonic Evaluation.
- 3. Discuss about the any two types of harmonic filters.
- 4. Describe about the harmonic evaluation, with a suitable case study.
- 5. What are the various acceptance criteria with the limitations of harmonics?

Unit IV

- 1. What is meant by flicker analysis? What is its necessity and explain?
- 2. Explain the various possibilities for minimizing flicker effects.
- 3. Discuss the methods to minimize the flicker effects.
- 4. Describe about the flicker analysis and calculations.
- 5. Represent various flicker terminologies and their usage in stating the flicker criteria.

Unit V

- 1. Describe the Ground Grid Resistance Calculation with the help of suitable equations.
- 2. Explain in detail about the determination of maximum ground fault current.
- 3. Explain the calculation of ground grid resistance.
- 4. Discuss about the determination of maximum ground fault current.

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5. State the methodology for performing ground grid calculation using computer aided analysis.