MEPS - 205

M.E./M.Tech., II Semester

Examination, June 2013

Power System Transients

Time: Three Hours

Maximum Marks: 70

Note: 1. Attempt any five questions.

- 2. All questions carry equal marks.
- Discuss the origin and nature of transients and surges in power systems.

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- 2. Explain various methodologies to control the occurrence of transients.
- 3. What is meant by lightning phenomena? Describe the methods which reduce the harmful effects of lightning in power system utilities.
- 4. Draw a flow chart, which shows the operation of a surge diverter in transient analysis. Explain.
- 5. Explain the principle and working of over voltage limiting devices.
- 6. What are the parameters of lumped and distributed circuit transients? Discuss an approximate method to evaluate the nature of transients.

- 7. Enumerate Z transform method for power system transients analysis.
- 8. Write short notes on any two of the following:
 - a) Tracking and erosion of insulation
 - b) Bergeron method
 - c) Effects of trapped charge in C.B.
 - d) Line energisation and de-energisation transients

Work and the first

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