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M. Tech. 2nd Semester (Electrical Power System)

Examination, May-2015

POWER SYSTEM DYNAMICS AND STABILITY

Paper-MTEPS-201

Time allowed : 3 hours]

[Maximum marks : 100

Note : Attempt any five questions from given eight.

1. (a) Explain the means by which stability of a power system is found out and maintained. 10
(b) What is the concept of voltage collapse ? How it is cured ? 10
2. (a) Explain the concept of continuation power flow analysis. 10
(b) Explain different methods of transient stability. 10
3. (a) What is equal area criterion ? Where it is used ? 10
(b) What are the limitations of direct method and where it is used ? 10
4. (a) Explain the construction and working of synchronous machine. 10
(b) Model the synchronous machine that will be used for the stability. 10

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5. What are excitation systems ? Why these are used ? Explain any two in this reference. 20
6. (a) Why do we require a static voltage regulator ? Explain. 10
(b) Explain the construction and working of Brushless excitation system. 10
7. (a) What is governor action ? Why it is used ? 10
(b) Explain why and where automatic voltage regulators are used and how these effect the stability. 10
8. Write short notes on : 20
(a) Swing equation
(b) Machine equation.

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