

Code: EEPC2T1

PVP 12

I M.Tech-II Semester-Regular Examinations-August 2014

**POWER SYSTEM DYNAMICS & STABILITY
(POWER SYSTEM CONTROL AND AUTOMATION)**

Duration: 3 hours

Marks: 5x14=70

Answer any FIVE questions. All questions carry equal marks

1. Derive the state space model of a synchronous machine?
14 M
2. Explain about transient stability analysis under large disturbances.
14 M
3. Discuss synchronous machine stability by eigen value approach.
14 M
4. Explain digital simulation of transient stability.
14 M
5. Discuss about Multi Machine Stability in detail.
14 M
6. Explain the effect of exciter on power system stability.
14 M
7. Explain the functioning of direct acting voltage regulator with neat diagram.
14 M
8. Discuss about static excitation scheme.
14 M