Code: **EEPC2T1**

I M.Tech - II Semester - Regular Examinations – AUGUST 2016

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

Duration: 3 hours   Max. Marks: 70
Answer any FIVE questions.   All questions carry equal marks

1. Briefly explain the computer representation for excitation and governor systems.   14 M

2. Define steady state stability. Distinguish between steady state and transient stability.   14 M

3. Explain the state space representation of synchronous machine connected to infinite bus and discuss its stability by eigen value approach.   14 M

4. Briefly explain the Digital Simulation of transient stability.   14 M

5. Briefly explain the multi machine transient stability under different faulted conditions.   14 M

6. Discuss about effect of governor action and exciter on power system stability.   14 M

7. Explain the Rotating main and pilot Exciters with indirect acting Rheostatic type voltage Regulator.   14 M

8. Write short notes on   14 M
   a) Static excitation scheme
   b) Brushless excitation system.