

Code: **EEPC2T6B**

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

**POWER SYSTEM DEREGULATION
(POWER SYSTEM CONTROL AND AUTOMATION)**

Duration: 3 hours

Marks: 5x14=70

Answer any FIVE questions. All questions carry equal marks

- 1 a) Compare between ‘competition for the market’ and ‘competition in the market’? 7 M
- b) Explain about the types of market and their settlements? 7 M
- 2 Explain retail competition. Also explain the retail access framework. Explain the impact of reform on regulation and externalities. 14 M
- 3 Explain the methods for the analysis of bilateral and pool markets. Also explain various price formulation schemes. 14 M
- 4 Explain the Price based Unit Commitment problem formulation with the help of example? 14 M

- 5 Explain briefly about
- a) Integrated Trading Model 5 M
 - b) Decentralized Trading Model 5 M
 - c) Transmission pricing scheme 4 M
- 6 a) Explain different performance indices in deregulation for generation, transmission and distribution. 7 M
- b) Explain any two method to assess the financial feasibility of any project. 7 M
- 7 Explain following methods of regulations:
- a) Rate of return regulation. 4 M
 - b) Performance based regulation. 3 M
 - c) Incentive regulation. 4 M
 - d) Benchmarking or Yardstick regulation 3 M
- 8 What are ancillary services? Explain classifications and Definitions of Ancillary services? 14 M