Code: EEPC2T6B

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

POWER SYSTEM DEREGULATION (POWER SYSTEM CONTROL AND AUTOMATION)

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

- 1. Explain the need for deregulation and also explain what are the objectives of deregulation in developing countries? 14 M
- 2.
- a) Explain what "services unbundling" means in the electricity supply industry, why it is necessary to carry it out to introduce competition in a monopoly, and list some of its characteristics.
 7 M
- b) What is the major difference between retail competition model and wholesale competition model? 7 M
- 3.
- a) Compare pool and bilateral trading in open electrical energy markets. 7 M
- b) Explain consumer's Perspective participating in market electrical energy. 7 M

- 4.
- a) Define physical transmission rights and explain how these are used.
 7 M
- b) What are the conditions for perfect competition? How can a company in an imperfect competition environment influence the market price? What is the relationship between the marginal cost of generation and market price in perfectly and imperfectly competitive markets?
 7 M
- a) Discuss different transmission cost allocation methods. 7 M
- b) Expalin security-constrained unit commitment. 7 M
- 6.
- a) Explain the effect of congestion on Locational Marginal Prices (LMP).7 M
- b) Discuss the outline of transmission pricing scheme. 7 M
- 7.
- a) Explain about balancing issues, network issues and system orientation of ancillary services.7 M
- b) What are the drawbacks of obtaining ancillary services using mandatory means? 7 M

8.a) Explain different functions of ancillary services.7 M

b) Explain about AS management in various markets. 7 M