

Roll No

EX - 8401**B.E. VIII Semester**

Examination, June 2016

Power System Economics

(Elective - IV)

*Time : Three Hours**Maximum Marks : 70*

- Note:* i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.
 ii) All parts of each question are to be attempted at one place.
 iii) All questions carry equal marks, out of which part A and B (Max. 50 words) carry 2 marks, part C (Max. 100 words) carry 3 marks, part D (Max. 400 words) carry 7 marks.
 iv) Except numericals, Derivation, Design and Drawing etc.

1. a) What are the important concepts of deregulation?
 b) Discuss the benefits associated with deregulation.
 c) Describe the problems associated with the regulation.
 d) What are the reasons show the need of ATC computations? State and explain any one method for determination of available transfer capability.

OR

What do you understand by congestion management? Describe one of the approach to solve congestion problem in electricity market.

2. a) What is competition in power market?
 b) Discuss the role of marginal cost in electricity market.
 c) Describe the concept of efficiency of perfect competition.
 d) Explain spot markets and novel trading mechanisms in power market.

OR

Explain the significance of marginal cost, working with marginal cost and results of marginal cost in power market.

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3. a) Define market power.
 b) What are the out comes of price and quality of market power?
 c) Discuss the three stages of market power.
 d) Explain the monopoly concept in power auction.

OR

Describe the market power on demand side of power system.

4. a) What is fundamental restructure system?
 b) Discuss the transmission pricing in restructure system.
 c) State and explain in brief restructure models.
 d) Describe the structure of open access same time information system.

OR

Explain how the transfer capability of open access same time information system is computed.

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5. a) Compare competition for the market and competition in the market.
 b) Discuss the disparity of prices.
 c) Describe the problems with traditional regulation.
 d) Explain the market rules for competitive prices of generated electricity.

OR

Describe the technique for testing of market design.
