

PARUL UNIVERSITY
FACULTY OF ENGINEERING & TECHNOLOGY
M.Tech. Summer 2018 - 19 Examination

Semester: 2**Subject Code: 203207180****Subject Name: Program Elective -3 - Restructured Power Systems****Date: 10/05/2019****Time: 10:30am to 1:00pm****Total Marks: 60**

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

- Q.1** A) Why Restructured Power System is required? (05)
B) Explain the structure and different entities in deregulated electricity market with necessary diagram? (05)
C) What is Available Transfer Capability (ATC) in Restructured Power System? (05)
- Q.2** Answer the following questions. (Attempt any three) (Each five mark) (15)
- A) What is congestion management and explain the congestion management methodologies?
B) Describe the Locational marginal pricing mode.
C) Explain distributed generation in restructured power system?
D) Describe the different source of Electricity Market risks?
- Q.3** A) Describe Hedge, Hedging and Hedger in Restructured power System? (07)
B) Explain electricity act 2003? (08)
- OR**
- B) Explain classification of ancillary service? (08)
- Q.4** A) Explain formulation of objective function for social welfare maximization? (07)
- OR**
- A) What is PJM Explain in Detail. (07)
B) What are the factors for volatility in Electric market price? (08)