

Exam.Code:1019
Sub. Code: 6392

1078
M.E. Electrical Engineering (Power Systems)
Third Semester
EE-8301: Power System Deregulation

Time allowed: 3 Hours

Max. Marks: 50

NOTE: Attempt any five questions.

x-x-x

- I. What is meant by the term Bidding? Why and how is relevant to power sector. Hence discuss various bidding mechanisms used in it. (10)
- II. Give the concept of an Electricity Market. Hence discuss the pool and bilateral electricity markets. Give their operational challenges and benefits. (10)
- III. Define Loadability of an electrical system. How is it calculated? Hence explain the relation between Loadability and available transfer capability of a system. (10)
- IV. Which services are considered under ancillary services? Hence explain how we manage voltage and frequency in a power system using ancillary services. (10)
- V. Discuss the criteria used to decide the transmission pricing structure of the electrical power hence explain various pricing indices used? Hence explain how forward price curves are constructed? (10)
- VI. List the main features of Electricity Act 2003. Discuss the important policies and provisions in EA 2003 which are meant for the reforms in a power system. (10)
- VII. Who is an Independent System Operator in Indian power system? What are its roles in operational planning of pool and bilateral markets? (10)
- VIII. Write short notes on any two of the following:-
 - a) Transmission open access
 - b) Synchronous generator as ancillary service provider
 - c) Short Term Price Forecasting(10)

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