

Total No. of Questions :8]

SEAT No. :

**P1858**

**[4859]-1032**

[Total No. of Pages :2

**B.E. (Electrical)**

**RESTRUCTURING AND DEREGULATION  
(2012 Pattern) (Elective - II) (Semester - I) (403144)**

*Time :2½ Hours]*

*[Max. Marks :70*

*Instructions to the candidates:*

- 1) *Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.*
- 2) *Figures to the right side indicate full marks.*
- 3) *Assume suitable data, if necessary.*

- Q1)** a) Explain the objectives of “Electricity Act 2003” with reference to Generation, Transmission and Distribution. Also explain the guidelines under this act. [6]
- b) What are various challenges before Indian Power Sector. [6]
- c) Explain following types of regulations: [8]
- i) Rate of return regulation.
  - ii) Performance based regulation.

OR

- Q2)** a) Explain the working of Indian Energy Exchange (IEX) for day ahead market. [8]
- b) Describe the desirable characteristics of tariff of electricity. [6]
- c) Explain role of regulation and evolution of regulatory commission. [6]
- Q3)** a) Write short note on following models based on industry structure and contractual arrangements: [8]
- i) Wholesale Competition.
  - ii) Retail Competition.
- b) Compare between ‘competition for the market’ and ‘competition in the market’. [8]

OR

**P.T.O.**

- Q4)** a) Explain the important changes occurred in Indian power sector after electricity reform. [8]  
b) Explain various ISO (Independent System Operator) Models. [8]
- Q5)** a) State and explain various methods of transmission pricing. [8]  
b) Specify peculiarities of electricity as a commodity. Explain rules that govern the electricity markets. [8]

OR

- Q6)** a) Compare integrated trading model and decentralized trading model. [8]  
b) Explain Power Exchanges in India. Also explain the concept of market clearing price. [8]
- Q7)** a) Explain in detail congestion issue and management. [9]  
b) State the key features of indian Grid code. Also explain transmission congestion issues. [9]

OR

- Q8)** a) What is the importance of transmission pricing under open access condition? State and explain major components of transmission costs. [9]  
b) Explain three parts of Availability Based Tariff. Also explain how with implementation of ABT, the grid operation is improved in Indian power sector. [9]

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