

Total No. of Questions : 8]

SEAT No. :

**P1993**

[Total No. of Pages : 2

**[5059]-588**

**B.E. (Electrical) (Semester - VII)  
RESTRUCTURING AND DEREGULATION  
(2012 Pattern) (Elective - II)**

*Time : 2½ Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) *Answer Q1 or Q2, Q3 or Q4, Q5 or Q6. Q7 or Q8.*
- 2) *Figures to the right side indicate full marks.*
- 3) *Assume Suitable data if necessary.*

- Q1)** a) Explain the institutional structure of Indian power sector before and after restructuring opted. [6]
- b) Explain following economic terms of power sector. [8]
- i) Fixed cost and variable cost.
  - ii) Capital cost.
  - iii) Depreciation.
  - iv) Interest and finance charges.
- c) Explain the role of State Electricity Regulatory Commission and Central Electricity Regulatory Commission. [6]

OR

- Q2)** a) Explain the key objectives of 'Electricity Act 2003' with reference to generation, transmission and distribution sector. [6]
- b) Explain following methods of regulations: [8]
- i) Rate of return regulation.
  - ii) Performance based regulation.
- c) Describe the desirable characteristics of tariff of electricity. [6]
- Q3)** a) Explain the following models in details [8]
- i) Pool model.
  - ii) Bilateral trades.
- b) Compare between 'competition for the market' and 'competition in the market'. [8]

**P.T.O.**

OR

- Q4)** a) Explain the working of ISO (Independent System Operator) models. [8]  
b) Explain wholesale competition & retail competition model based on industry structure. [8]
- Q5)** a) Specify peculiarities of electricity as a commodity. Explain rules that govern the electricity markets. [8]  
b) Compare integrated trading model and decentralized trading model. [8]

OR

- Q6)** a) Explain Power Exchanges in India. Also explain the concept of market clearing price. [8]  
b) Explain the impact of market reform on regulation & Externalities. [8]
- Q7)** a) Explain in detail congestion issue and management. [9]  
b) What is the importance of transmission pricing under open access condition? State and explain major components of transmission costs. [9]

OR

- Q8)** a) Explain the various transmission pricing methods briefly. [9]  
b) Write a short note on. Availability based tariff.(ABT) [9]

