

Total No. of Questions : 10]

SEAT No. :

**P3595**

[Total No. of Pages : 2

**[4959]-1068**

**B.E. (Electrical)**

**RESTRUCTURING AND DEREGULATION  
(2012 Course) (Semester - I) (Elective - II(a))**

*Time : 2½ Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) *Solve Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8, Q9 or Q10.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right indicate full marks.*
- 4) *Assume suitable data, if necessary.*

- Q1)** a) Explain the challenges before Indian Power Sector. [5]  
b) Explain Consumer tariff. [5]

OR

- Q2)** a) Explain the functions of CEA. [5]  
b) Explain why Public participation is necessary in regulatory process. [5]

- Q3)** a) Explain role CERC. [5]  
b) Explain different performance indices for transmission and distribution. [5]

OR

- Q4)** a) Explain following basic concepts of power sector economics: [5]  
i) Debt and Equity  
ii) Interest and Finance charges  
b) Write a short note on Cost Plus Method of regulation. [5]

- Q5)** a) Explain following structural models. [8]  
i) Wholesale competition  
ii) Retail competition  
b) Write a short note on Californian Energy Crisis. [8]

OR

**P.T.O.**

- Q6)** a) Write short note on the following electricity trading models based on industrial structure. [8]  
i) Pool and Bilateral Trades  
ii) Multilateral Trades
- b) Explain Electricity reforms of : [8]  
i) Nordic Pool  
ii) UK

- Q7)** Write a short note on following electricity trading models : [16]  
a) Integrated  
b) Wheeling  
c) Decentralized

OR

- Q8)** a) Explain the following terms : [9]  
i) Marginal Clearing Price  
ii) Market Power  
iii) Market Efficiency
- b) Explain the rules that govern the electricity markets. [7]

- Q9)** a) Explain the three parts of Availability based tariff and how its implementation has helped in the improvement of the grid operation in Indian power sector. [9]
- b) What are transmission congestion issues, explain in details. Also mention the different congestion management methods. [9]

OR

- Q10)** a) Explain the concept of open access and transmission rights. Also explain transmission pricing. [9]
- b) Explain the concept of firm transmission rights (FTR) and locational marginal pricing (LMP). [9]

