

Total No. of Questions : 8]

SEAT No. :

P3072

[5154]-638

[Total No. of Pages : 2

B.E. (Electrical)

RESTRUCTURING AND DEREGULATION

(2012 Course) (403144 A) (End Semester - I) (Elective - II)

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.
- 4) Neat diagrams must be drawn wherever necessary.

- Q1)** a) What are the challenges before the Indian power sector undergoing reform. [6]
- b) Explain following economic terms of power sector. [6]
- i) Fixed and variable cost.
 - ii) Profitability indices.
 - iii) Working capital.
- c) What are the socio economic aspects of deregulations and explain. [8]

OR

- Q2)** a) Write a short note on Renewable energy Credit and carbon credits. [8]
- b) Explain TOD tariff and tariff structure for agricultural consumers. [6]
- c) Explain the regulatory process in India and explain performance based regulation. [6]

- Q3)** a) Write short note on wholesale competition, retail competition based on industry structure and contractual arrangements. [8]
- b) Explain various ISO (Independent System Operator) models. [8]

OR

P.T.O.

- Q4)** a) Compare between competition for the market and competition in the market. [8]
- b) Explain electricity reforms of Nordiac pool. [8]

- Q5)** a) Specify peculiarities of electricity as a commodity. Explain rules that govern the electricity market. [8]
- b) Compare integrated trading model and decentralized trading model. [8]

OR

- Q6)** a) Write brief note on ancillary service market, spot market, reserve market. [8]
- b) What are the impacts of market reform on regulation and externalities. [8]

- Q7)** a) What is importance of transmission pricing under open access condition? State and explain major components of transmission costs. [9]
- b) Explain the key features of Indian Grid Code and also explain transmission congestion issues. [9]

OR

- Q8)** a) Explain the concept of open access, transmission rights and locational marginal pricing. [8]
- b) Explain three parts of ABT. Also explain how with implementation of ABT, the grid corporation is improved in Indian power sector. [10]

