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# B.Tech. (Electrical & Electronics Engg.) (E1 2013 Onwards) (Sem.–6) DEREGULATION OF POWER SYSTEM Subject Code : BTEEE-603F M.Code : 72847

Time: 3 Hrs.

Max. Marks: 60

## INSTRUCTIONS TO CANDIDATES :

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

## **SECTION-A**

#### 1. Answer briefly :

- a) Define transmission congestion.
- b) Name five countries involved in the deregulation process of electric power systems.
- c) What is transmission open access?
- d) What are ancillary services and their need?
- e) Explain the functions of an ISO in electricity markets.
- f) What is market power? How is it used to influence the market price?
- g) Compare the features of electricity with other commodities in restructured environment.
- h) What is the effect of loop power flow in contract path method based transmission pricing?
- i) Explain what is availability based tariff in India?
- j) List different reforms in Indian power sector.



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### **SECTION-B**

- 2. Explain restructuring and the advantages of competitive power systems.
- 3. Describe various market instruments which are traded in electricity markets. What is the difference between day ahead and hour ahead market operation?
- 4. Explain separation of ownership and operation.
- 5. Discuss about the role of various entities involved in a deregulated power system.
- 6. Explain experience of California regarding deregulation of electricity supply industry.

### **SECTION-C**

- 7. What is market clearing price? How is it determined? Explain the difference between pool market, bilateral contract and multilateral contract.
- 8. Explain nodal pricing of electricity and various methods of nodal pricing.
- 9. Compare the experience of China and India in the context of deregulation of electricity supply industry.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.