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Roll No. ....

**H27**

**B. Tech. EXAMINATION, 2020**

(Eighth Semester)

(B Scheme) (Re-appear Only)

EE438B

RECENT TRENDS IN DEREGULATED  
POWER SYSTEMS

*Time : 2½ Hours]*

*[Maximum Marks : 75*

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Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

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**Note :** Attempt *Four* questions in all. All questions carry equal marks.

1. (a) What is the purpose of deregulation ?  
How does it motivate the power industries ?  
(b) What do you mean by deregulation ?  
Discuss its overview in brief.
2. (a) Describe the major factors behind restructuring in power systems.  
(b) Explain the benefits of competitive electricity market after the effects of deregulation.
3. Describe the different theories of trading :  
(a) Bilateral trading  
(b) Pool + Bilateral trading  
(c) Multilateral trading.
4. Explain bidding mechanism model of ISO, and also discuss the functions and responsibilities of an ISO ?
5. (a) Summarize the congestion management in deregulation.

- (b) Describe the transfer capability of transmission line.
- 6.
  - (a) Describe the security management in deregulated environment.
  - (b) Demonstrate the Pricing of power transmissions.
- 7.
  - (a) Describe the role of reliability in deregulated power systems.
  - (b) Explain in detail the formation of power pools.
- 8. Write short notes on the following :
  - (a) Optimal power flow as a basic tool
  - (b) Unit commitment.