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**MEPS-204**

**M. E./M. Tech. (Power Systems) (Second Semester)  
EXAMINATION, June, 2011**

**(Grading/Non-Grading)**

**RESTRUCTURED POWER SYSTEMS**

**(MEPS-204)**

*Time : Three Hours*

*Maximum Marks :  $\begin{cases} GS: 70 \\ NGS: 100 \end{cases}$*

**Note :** Attempt any five questions. All questions carry equal marks.

1. (a) Explain the basic structure of restructured power-system.  
(b) What is the status of Deregulation in power sector in India ?
2. (a) Define and describe the transfer capability of transmission line.  
(b) Define the following terms used in deregulation :
  - (i) TTC
  - (ii) TRM
  - (iii) CBM
  - (iv) ATC
3. Explain transmission pricing in restructured power systems..

4. (a) What is the congestion in power systems ? What are the various methods for relaxing the congestion ?  
(b) Develop an algorithm for determining the ATC.
5. Discuss distributed generation in restructured markets.
6. Specify the following :
  - (i) Open access
  - (ii) Optimal bidding
7. Write short notes on any three of the following :
  - (i) Risk assessment and hedging
  - (ii) Standard market design
  - (iii) PJM interconnection
  - (iv) Non-performing obligation
  - (v) ISO **RGPVONLINE.COM**
  - (vi) Ancillary services