

MEPS - 204

M.E./M.Tech., II Semester

Examination, June 2014

Restructured Power Systems

Time : Three Hours

Maximum Marks : 70

- Note :** i) Attempt any five questions.
ii) All questions carry equal marks.

1. What do you understand by 'Regulation' and 'Deregulation' in power system? Discuss with the help of block diagram structure of deregulated power sector.
2. Define 'ATC'. Write the principles of ATC determinations along with algorithm.
3. Define the following terms used in deregulation:
 - a) TTC
 - b) TRM
 - c) CBM
 - d) ISO
4. a) What is the role of distributed generation in restructured market.
b) Explain the various transmission pricing methods.

5. Define the following:
 - a) Bilateral contract
 - b) Optimal bidding
 - c) Ancillary services
 - d) Handling of contract violation
6. a) What is congestion in power system? What are different ways to management the congestion.
b) Explain the potential problem and key issues in deregulation.
7. a) Explain the Hierarchy of Transmission and distribution system.
b) Explain electricity price fore casting in deregulation environment.
8. Write short note on following (any two):
 - a) Restructuring of power industry
 - b) AGC under deregulated environment
 - c) Open access and market power.
