

Exam.Code:1017  
Sub. Code: 35255

2125  
M.E. Electrical Engineering (Power System)  
First Semester  
EE (PS)-8105: Power System Deregulation

Time allowed: 3 Hours

Max. Marks: 50

**NOTE:** Attempt any five questions.

x-x-x

1. Which electricity market has competitive environment in power system? What are its advantages? Explain in detail. (10)
2. What are different components of restructured power system? Discuss planning activities of Gencos. (10)
3. Write short notes on:-
  - a) ISO
  - b) Pool market
  - c) Bilateral market
  - d) ATC (4x2½)
4. What are cost components of transmission system? Explain bidding and auction mechanism of transmission system. (10)
5. Discuss how congestion affects the operation of power system? Discuss different preventive and corrective congestion management schemes. (10)
6. What are different factors affecting ATC? Explain any one method for its determination. (10)
7. Explain:
  - a) MW-mile and MVA-mile transmission pricing methodology.
  - b) Inter and intra-zonal congestion management. (2x5)
8. Explain power wheeling with respect to power system operation. How does it affect operation of deregulated power market? (10)

x-x-x