

Total No. of Questions: 08

## M.Tech. (Power System) (2018 Batch) (Sem.-2) RESTRUCTURED POWER SYSTEMS

Subject Code: MTPS-203A-18 M.Code: 76134

Time: 3 Hrs. Max. Marks: 60

## **INSTRUCTIONS TO CANDIDATES:**

- 1. Attempt any FIVE questions out of EIGHT questions.
- 2. Each question carries TWELVE marks.
  - 1. State the key features of Indian Grid code. Also explain transmission congestion issues.
  - 2. Explain the different auction mechanism employed in competitive electricity markets.
  - 3. Explain three parts of Availability Based Tariff. Also explain how with implementation of ABT, the grid operation is improved in Indian power sector.
  - 4. What is Meant by congestion in power system? Explain the concept of Congestion management.
  - 5. a) With the necessary equations. Explain the role of transmission planning in vertically integrated utility.
    - b) By using the structure arrangement. Explain the trading of power pool with the bilateral contracts.
  - 6. a) Explain the transmission pricing in open access system.
    - b) State roles and responsibilities of Independent System Operators.
  - 7. Explain, how the Ancillary services procuring important consideration in the new environment of the power system.
  - 8. Write the short notes on **any three**:
    - a) Total transfer capability.
    - b) CBM-Capacity benefit Margin.
    - c) TRM-total reliability Margin.
    - d) Brief the current scenario of Indian power market.

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.

**1** M-76134 (S35)-1338