

**M. TECH.-II (ELECTRICAL -POWER SYSTEM) (CBCS -- 2015  
COURSE) : WINTER - 2017**

**SUBJECT: ELECTIVE-I POWER SECTOR RESTRUCTURING & DEREGULATION**

Day: **Thursday**  
Date: **30/11/2017**

Time: **11.00 AM TO 02.00 PM**  
Max marks: **60**

**W-2017-2823**

**N.B:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answer to both the sections should be written in **SEPARATE** answer book
- 4) Assume suitable data if necessary.

**SECTION-I**

**Q.1** Explicate electricity act related to generation of electricity. **(10)**

**OR**

Elucidate Indian electricity act related to transmission of electricity.

**Q.2** Enlighten the role of regulatory commission in the Indian power sector. **(10)**

**OR**

Explicate various methods of economic regulation in the power sector.

**Q.3** Explain effect of renewable energy and captive power generation on tariff. **(10)**

**OR**

Compare time of day tariff and interruptible tariff.

**SECTION-II**

**Q.4** Explain wholesale competition model with its merits and demerits. **(10)**

**OR**

Write note on congestion management.

**Q.5** Compare dynamics spot pricing and real time pricing **(10)**

**OR**

Write note on optimal power flow spot pricing for real and reactive power.

**Q.6** Compare marginal and composite pricing in transmission plan. **(10)**

**OR**

Explain various methods of loss allocation in transmission planning.

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