

Total No. of Questions : 6]

SEAT No. :

P530

[Total No. of Pages : 1

**T.E./INSEM/APR-118**  
**T.E. (Electrical) (Semester - II)**  
**Energy Audit and Management**  
**(2015 Pattern)**

*Time : 1 Hour]*

*[Max. Marks : 30*

*Instructions to the candidates:*

- 1) Neat diagrams must be drawn wherever necessary.*
- 2) Figures to the right side indicates full marks.*
- 3) Use of logarithmic tables slide rule, Mollier charts, electronic pocket calculator and steam tables is allowed.*
- 4) Assume suitable data, if necessary.*

**Q1)** Discuss energy sector reforms in India. Also give highlights of Electricity act 2003. **[10]**

OR

**Q2)** What is energy security? How energy security of nation is ensured? Will energy conservation help nation to be energy secured.? **[10]**

**Q3)** Explain structure of energy management division in an industry. Also discuss key elements in energy management. **[10]**

OR

**Q4)** Explain in detailed energy management strategy. Also explain role of motivation in successful energy management. **[10]**

**Q5)** Explain benefits of load curve manipulation. Explain daily, weekly and monthly load curve manipulation. **[10]**

OR

**Q6)** Explain role of tariff in energy management. Discuss various incentives and penalties applicable in different tariffs useful for energy management. **[10]**

