

**T.E.(Electrical Engineering)**  
**ENERGY MANAGEMENT**  
**(2019Pattern) (Semester-VI)**

1. Write short note on SSM and DSM.
2. Explain I brief Demand management through tariffs (TOD)
3. Write short note on
  - 1) Power factor penalties and incentives in tariff for demand control.
  - 2) Apparent energy tariffs.
4. Define Energy audit. Explain its types in details.
5. Write short note on Relevance of Data Analytics in Audit and energy audit instrumentation.
6. Explain pie charts. Sankey diagram, Cusum technique, least square method used in Energy audit.
7. State and explain Financial appraisals.
8. In data analysis following data points of specific energy consumption and production are obtained. By using least square method find liner straight line fit for following data points (0, 3); (2, 1); (3, -1) and (5, -2).
9. Write short note on Energy Audits case studies – Sugar Industry.
10. Explain energy saving opportunities in furnace and rolling mill.
11. Explain with suitable example break even analysis.
12. Explain energy saving opportunities in Cogeneration and waste heat recovery systems.