

B.Tech. SEM -VI Mechanical 2014 Course (CBCS) : SUMMER - 2019
SUBJECT: ELECTIVE – I: ENERGY AUDIT & MANAGEMENT

Day: Friday
Date: 31/05/2019

Time: 02.30 PM TO 05.30 PM
Max. Marks: 60

S-2019-2761

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.

Q.1 What are the duties and responsibilities of Energy Manager? **(10)**

OR

Q.1 Explain the need for energy management especially for India. **(10)**

Q.2 What is the difference between process flow chart and Sankey diagram? Explain with an example. **(10)**

OR

Q.2 Explain material balance, heat balance and energy balance with example. **(10)**

Q.3 Explain the financial analysis by Net Present Value Method. **(10)**

OR

Q.3 Explain Return on Investment method. What are the limitations of this method? **(10)**

Q.4 Explain different ways to improve the energy efficiency of electrical motors. **(10)**

OR

Q.4 Explain different ways to improve the energy efficiency of pumps. **(10)**

Q.5 Explain energy conservations methods in boilers. **(10)**

OR

Q.5 Explain energy conservation methods in furnaces. **(10)**

Q.6 What are the instruments used for energy audit? Why are these important for energy audit? **(10)**

OR

Q.6 Explain energy audit reporting requirements. **(10)**

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