

B.Tech. SEM -VI Mechanical 2014 Course (CBCS) : WINTER - 2018

SUBJECT: ELECTIVE – I: ENERGY AUDIT & MANAGEMENT

Day: Saturday
Date: 17/11/2018

W-2018-2496

Time: 10.00 AM TO 01.00 PM
Max. Marks: 60

N.B.:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
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Q.1 Explain the necessity of energy conservation. **(10)**

OR

Q.1 Explain the strategy adapted in India for energy conservation for future. **(10)**

Q.2 Explain concept of 'Sankey diagram'. Draw a Sankey diagram for any process and explain it. **(10)**

OR

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

Q.3 What are the ways by which financial approaches can be done to evaluate energy savings? **(10)**

OR

Q.3 Explain the method of simple payback period. What are advantages and disadvantages of this method? **(10)**

Q.4 Explain the different ways to improve energy conservation on the supply side. **(10)**

OR

Q.4 What are the ways to minimize the supply demand gap of electrical energy? **(10)**

Q.5 What is 'Cogeneration'? Explain different ways of cogeneration. **(10)**

OR

Q.5 How do you build an energy efficient building? **(10)**

Q.6 What are different types of energy audit? **(10)**

OR

Q.6 What do you understand from the term 'Bench marking'? Why is it necessary? **(10)**

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