USN

Model Question Paper (CBCS) with effect from 2015-16
SixthSemester B.E. Degree (CBCS) Examination
Energy Auditing

Time: 3 hrs.   Max. Marks: 80

Note: Answer any FIVE full questions, choosing one full question from each module.

MODULE – I

1 **a** Explain the need for energy management. (08 Marks)
b Review the energy scenario in India in brief. (08 Marks)

OR

2 **a** What is Energy Performance Contracts? Elaborate the need for energy audit in industries. (08 Marks)
b Interpret the method of evaluation of energy conservation opportunities. (08 Marks)

MODULE – II

3 **a** Explain briefly the difference between preliminary and detailed energy audits (08 Marks)
b Describe the energy management approach that one should adopt. (08 Marks)

OR

4 **a** What is an energy audit? Explain its need. (06 Marks)
b Give a brief about the various energy auditing instruments. (10 Marks)

MODULE – III

5 **a** What do you understand by energy management? Elaborate the various elements of Energy Management Program (EMP) (08 Marks)
b List the various duties of Energy Manager. (08 Marks)

OR

6 **a** Explain the need for energy management in our country. (08 Marks)
b Write a short note on monitoring and targeting. (08 Marks)

MODULE – IV

7 **a** How can energy conservation in boiler systems be achieved? Explain the measures. (09 Marks)
b What are the benefits of WHR? Explain any two devices. (07 Marks)

OR

8 **a** What are the advantages of using insulation? Write a short note on Economic Thickness of Insulation (ETI). (08 Marks)
b Elaborate the energy conservation measures in steam systems in detail. (08 Marks)

MODULE – V

9 **a** Explain the need for reactive power management? How is it achieved? Explain
(i) HVDC   (ii) FACTS (08 Marks)
b What are Energy Efficient Motors (EEM)? What measures are adopted to reduce the various losses in EEM. (10 Marks)

OR

10 **a** What is DSM? Explain the various strategies of DSM. (08 Marks)
b Interpret the possible energy conservation measures that can be adopted in fans. (08 Marks)

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written e.g, 38+2 = 40, will be treated as malpractice.