R16

Code No: 136EX

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech III Year II Semester Examinations, November/December - 2020
ENERGY MANAGEMENT AND CONSERVATION
(Common to EEE, ME, ECE)

Time: 2 hours **Max. Marks: 75**

Answer any five questions
All questions carry equal marks
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1. Give the classification of Energy sources and discuss their availability in India. [15]
2. Discuss the global environmental concerns. [15]
3. What are different types of energy audits? Explain briefly. [15]
4. What are the benefits of benchmarking energy consumption? [15]
5. Investment for an energy proposal is Rs.10.00 lakhs. Annual savings for the first three years is 150,000, 200,000 and 300,000. Considering cost of capital as 10%, what is the net present value of the proposal? [15]
6. What are the advantages and limitations of discounted cash flow method? [15]
7. Discuss the heat loss through opaque envelope components of building envelope. [15]
8. Discuss in detail the Energy management in water and waste water treatment. [15]

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