

Question bank (G scheme)

Name of Subject: Energy Management

Subject code: 17559

Semester: Fifth

Course: CH

Unite test -1

Chapter 1: Energy scensrio(12Marks)

3 marks question

1. Classify energy sources with example
2. Discuss the status of energy production in India

4 marks question:

3. What do you mean by energy security?
4. What is energy conservation? How it is different from energy efficiency?
5. List out any four objective of energy management.
6. Write salient features of EC act 2001.
7. Write salient features of PAT scheme.

Chapter-2:Basics of energy(16Marks)

3 marks question

1. Define power factor. How it is calculated?
2. What is calorific value? Differentiate between GCV and NCV.

4 marks question:

3. Differentiate between sensible heat and latent heat with example.
4. Define load factor. If 5 KW generatoris delivering 4 KW, calculate load factor.
5. A 3 phase motor of 20 KW capacities is used for pumping operation. Line voltage is 440 V , current 25 A, power factor is 0.90. Find energy consumed by motor in one hour.
6. Define Relative humidity, wet bulb temperature, contact demand, maximum demand.
7. What is importance of energy management cell industry?
8. Explain three modes of heat transfer.
- 9) 10 kg of steam at 110 °C with latent heat of condensation 2260 KJ is cooled to 50 °C.If specific heat of water is 4200 KJ/kg °C. Find heat given by steam.

Chapter-3: Energy Audit(20 Marks)

3 marks question

1. What do you mean by fuel substitution? Give example.
2. Give any four benchmarking parameters with examples.
3. Justify need of energy audit.
4. What are important data need to be collected during energy audit?

4 marks question:

5. Explain steps to prepare energy audit report.
6. What is energy audit? State its type.
7. List different elements of monitoring and targeting system.
8. Describe the factor involved in deciding final cost of purchased electricity.
9. List equipment's used for energy audit.
10. Explain detailed energy audit.

