

- Q.27 Write short note on LED.
 - Q.28 Explain constructional differences of energy efficient motor from normal motor.
 - Q.29 List steps involved in energy audit.
 - Q.30 What is meant by EIA? Explain its significance.
 - Q.31 List various energy conservation opportunities in an air conditioning system.
 - Q.32 List the energy saving opportunities in an industrial Diesel-Generator Set plant.
 - Q.33 Explain the benefits of power factor improvement for consumer as well as for generating stations.
 - Q.34 What are the merits of solar energy?
 - Q.35 What is the need and scope of environmental impact assessment?

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 What do you mean by macro level approach for energy conservation at design stage? Discuss in detail.

Q.37 What is the need of transformer. How conventional transformer differ from energy efficient amorphous transformer?

Q.38 a) List steps involved in 'Energy Audit'.
b) Explain the duties of energy auditor and energy manager.

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6th Sem / Elect. Engg., Power Station Engg.

Subject:- Energy Management

Time : 3Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 Which of the following are renewable energy sources

 - a) Coal
 - b) Wind
 - c) Diesel
 - d) Nuclear

Q.2 Zero-watt bulbs uses how many watts per hour

 - a) 12-15
 - b) 18-20
 - c) 8-11
 - d) 2-6

Q.3 The main energy management strategies

 - a) Energy development
 - b) Energy conservation
 - c) Energy scheduling
 - d) Energy efficiency

Q.4 Magnetic core losses arises due to

 - a) Eddy current
 - b) Hysteresis losses
 - c) Magnetic saturation
 - d) All fo these

Q.5 CFL stands for _____

- a) Compact Fluorescent lamp
- b) Constantan filament lamp
- c) Closed filament lamp
- d) Closed fluorescent lamp

Q.6 BIS stands for _____

- a) Board of Indian stands
- b) Bureau of India standards
- c) Bureau of international specification
- d) Board of international standards

Q.7 Wind turbine converts wind power into _____.

- a) Potential energy b) Wind energy
- c) Electrical energy d) Mechanical energy

Q.8 Which of the following is not a method of power factor correction.

- a) Auto control
- b) Collective correction
- c) Proper capacitor selection
- d) Manual energy

Q.9 Standard frequency of power supply in India is

- a) 50 Hz b) 100 Hz
- c) 60 Hz d) 120 Hz

Q.10 EIA stands for _____.

- a) Environmental impact Assessment
- b) Energy impact association
- c) Efficient impulse Assessment
- d) None of these

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

Q.11 Name any two energy efficient lamps

Q.12 What is geothermal energy?

Q.13 Name any two losses in motor.

Q.14 What do you mean by lumen output?

Q.15 What is specific energy consumption?

Q.16 Stator losses make up about _____ of power losses.

Q.17 Full form of ECMS _____.

Q.18 The formal statement of EIA is known as _____.

Q.19 Define lumen per watt

Q.20 Bio diesel is Green eco-friendly alternative.
(True/False)

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

Q.21 What is energy management? What is the need of energy conservation?

Q.22 Explain the different areas of energy conservation in domestic sector

Q.23 Write a short note on global coal and oil crisis.

Q.24 Discuss in detail about various type of energy efficient lamps.

Q.25 What is the purpose, objective and functions of BIS?

Q.26 Write importance of energy conservation.