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6 th Sem. / Electrical

Subject : Energy Conservation and Audit

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 Energy conservation act established in INDIA in (CO4)

- a) 2000 b) 2001
- c) 2002 d) 2003

Q.2 Elements of energy managements includes (CO3)

- a) Energy Strategy b) Energy Policy
- c) Energy Planning d) All of above

Q.3 The Sun is a source of energy (CO1)

- a) Primary b) Secondary
- c) Third d) fourth

Q.4 What is the maximum conversion efficiency of thermal power plants ? (CO2)

- a) Between 10 and 20%
- b) 5%
- c) Between 20 and 40%
- d) Between 40 and 50%

Q.5 How can energy consumption in industrial sector be reduced ? (CO4)

- a) By not recycling
- b) By using old and outdated technology
- c) By wasting heat
- d) By cascading and process control

Q.6 Wind and Hydrogen energy are examples of _____ (CO1)

- a) Primary sources
- b) Primary and secondary sources
- c) Secondary sources
- d) tertiary sources

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 What is Payback period. (CO2)
Q.8 Write the full form of ECBC. (CO3)
Q.9 What is Star Labeling. (CO1)
Q.10 Write the full-form of ENS. (CO4)
Q.11 Write any two Secondary sources of energy. (CO1)
Q.12 Expand APFC (CO2)

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 Discuss the terms : Demand factor, Load factor, Diversity factor. (CO2)
Q.14 What is the aim of energy Audit and its need ? (CO4)
Q.15 Explain the energy saving tips in Water pumps. (CO1)
Q.16 What are the energy saving tips in Lighting . (CO1)
Q.17 In which building ECBC is applicable . (CO3)
Q.18 Explain the role of Bureau of energy efficiency, (CO1)

- Q.19 What do you mean by Energy Conservation and its need. (CO1)
Q.20 Discuss the various components used for Energy Audit. (CO3)
Q.21 Describe the salient features of Eco Niwas Samhita code (CO4)
Q.22 Explain the automatic power factor controllers. (CO4)

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Explain the energy saving tips of Air Conditioner and Refrigerator. (CO1)
Q.24 Explain the objective and features of Energy conservation Act 2001. (CO4)
Q.25 Discuss the features and applications of Energy efficient motors. (CO3)