Q.26 Write the working principle of hydrogen energy system.

Q.27 What is energy audit and its need.

Q.28 Explain any one type of non-conventional energy source.

Q.29 Explain any two methods for power factor improvement.

Q.30 List various application of secondary batteries.

Q.31 What is the need of energy storage.

Q.32 Write the various steps for detailed energy audit.

Q.33 What are the renewable sources of energy? Name different types of these sources?

Q.34 Write a short note on use of energy efficient technology in domestic sector.

Q.35 What is load & power factor.

SECTION-D

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

Q.36 What is energy conservation? Explain need and importance of energy conservation.

Q.37 Explain methods for obtaining energy from biomass.

Q.38 What is renewable energy? Explain the various type of renewable energies.

No. of Printed Pages : 4 181542/120942
Roll No. .....

4th Sem / IC, Elect, Power Station Engg, Elect. & Eltx. Engg.
Subject:- Principles of Energy Management / Energy Sources & Mgmt of Elect. Energy

Time : 3Hrs. M.M. : 100

SECTION-A

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

Q.1 Which is a conventional source of energy?

a) Radio-active substances
b) Solar
c) Geo-thermal
d) Wind

Q.2 Solar panels generate electricity

a) True b) False

Q.3 Zero-watt bulb uses how many walts per hours.

a) 18-20 b) 8-12
c) 12-15 d) 4-8

Q.4 Which of the following are renewable sources of energy.

a) Coal b) Petrol
c) Diesal d) Water

Q.5 Nuclear Energy measured in:

a) Mev b) MW

c) MJ d) None of the above

Q.6 SI unit for energy is_____

a) Watt b) Kilogram

c) Newton d) Joul

Q.7 Hydro-plants are more efficient than thermal plants.

a) Yes b) No

Q.8 The solar cell converts:

a) Chemical energy into electric energy

b) Solar radiations into thermal energy

c) Solar radiations into mechanical energy.

d) Thermal energy into electrical energy

Q.9 The main energy management strategies.

a) Energy development

b) Energy Scheduling

c) Energy Conservation

d) Energy efficiency

Q.10 The various instruments required during audit need to be :

a) Inexpensive b) Easy to operate

c) Easy to carry d) All of above

SECTION-B

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

Q.11 Write the unit of energy.

Q.12 What is the energy storage.

Q.13 Write the first steps of energy audit.

Q.14 The maximum value of power factor is_____

Q.15 Power Factor?

Q.16 Define energy audit.

Q.17 Expand MHD.

Q.18 Define energy conservation.

Q.19 Wind turbine converts wind power into_____

Q.20 Energy audit instrument used for power measurement _____

SECTION-C

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

Q.21 Discuss different types of energy source.

Q.22 Write the concept of MPPT.

Q.23 List the various uses of instrumentation & control for energy conservation.

Q.24 Differentiate between preliminary and detailed energy audit.

Q.25 Write a short note on electrical energy.