GUESS QUESTION-2023

SUB-ENERGY CONSERVATION AND AUDIT

- 1. What do you mean by energy conservation? Write in short.
- 2. State four selient feature of energy conservation Act2001.
- 3. Write about the function and working of following
 - a) Bureau of Energy Efficiency(BEE)
 - b) Maharastra Energy Development Agency(MEDA).
- 4. What is the star labelling? State its need and benefits.

- 1. Describe the need of energy conservation in Induction motor.
- 2. Explain the following enegy conservation methods of induction motor
 - a) Rewinding of motor
 - b) Operaing in star mode.
 - c)Improve power quality.
- 3. State any two energy conservation techniques in transformer.
- 4. Explain variable frequency drive(VFD).
- 5. Explain the working principle of automatic power factor controller.
- Explain amorphous core transformer and epoxy resine cast (dry) transformer with respect to energy conservation.

UNIT-03

- 1. State commercial losses in transmission system and distribution system. Also state remedies for the same.
- 2. State four causes of technical losses in transmission and distribution system. Also state technique to reduce it.
- 3. Explain the working principle and operation of kVAR.
- 4. State the function of Automatic Power Factor Controller(APFC).
- 5. Explain the two methods of energy conservation in lighting system.

- 1. Give classification of co-generation system on the basis of sequence of use of technology.
- 2. With neat diagram explain the following terms
 - a) Steam turbine co-generation system.
 - b) Gas turbine co-generation system.
- 3. What are the advantages of co-generation system?
- 4. State different types of tariffs. Explain any four tariff in detail.
- Or:- Define the following tariffs: Time-off day tariff and Peak-off day tariff.
- 5. Describe maximum demand tariff and power factor tariff.

- 1. What are the advantages of energy audit?
- 2. Explain all types of energy audit instrument and their uses?
- 3. What is energy flow diagram? Explain with neat diagram.
- 4. Explain the procedure to calculate the payback period. Also state its significance.