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∴ ECA VDT:

1. Why energy conservation technique should be adopted in transformers even though its efficiency is mostly more than 90%.
2. Explain the features of soft starters.
3. Describe variable frequency drive with suitable diagram.
4. Explain with the help of
  - i) Topping cycle type of co-generation
  - ii) Bottoming type co-generation.
5. Explain following energy conservation technique
  - i) Controlling  $I^2R$  losses
  - ii) Bto Balancing phase current.
6. Explain the role of MA MEDA & BEE to promote energy conservation programme.
7. Explain the penalty cause of poor power factor while preparing energy bill.
8. State working principle & operation of automatic power factor controllers used in transmission & distribution system.
9. State advantages of co-generation

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10. Explain energy conservation using energy efficient light sources.
11. Compare static capacitor & synchronous motor for power factor.
12. What is tariff? Explain in brief about various type of tariff.
13. Explain combined cycle power plant.
14. Explain the effect of harmonic on performance of electric motor.
15. Draw energy flow diagram.
16. How energy conservation can be done in boiler?
17. State the procedure to carry out energy audit of three phase transformer.
18. State the method to carry out theft of electricity & how it is prevented?
19. What are the objectives of bureau of energy efficiency?
20. Explain energy audit reporting & remedial measure.