

**QP Code : 31822**

**CBGS**

**3 Hours**

**Total marks :80**

**Answer any four questions.**

**Neat, labeled sketches, legible handwriting & practical examples will be appreciated.**

- Q.1** (20)
- a What are the Principles & Objectives of Energy Management? 10
  - b What is Energy Audit? Explain in Detail. 10
- Q.2** (20)
- a Write a note on Energy efficient & Environment Friendly Buildings Technologies. 10
  - b What are the various energy Production Systems? Explain in detail. 10
- Q.3** (20)
- a Explain Solar Energy conservation in Detail. 10
  - b Explain renewable and Non renewable Energy source in detail. 10
- Q.4** (20)
- a What is Energy conservation? Explain the importance of Energy conservations in Building. 10
  - b What is green building? Give the design of Green Building in detail with an example. 10
- Q.5** (20)
- a Explain in detail Waste Heat recovery. 10
  - b Explain Embodied energy and Operating Energy in Detail. 10
- Q.6** (20)
- Write short notes on
- a HVAC System 05
  - b Energy saving Pumps 05
  - c Energy savings Lighting system 05
  - d Improvement of Boilers Efficiency 05
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