

QP Code : 5283

[3 Hours]**[Total marks :80]****Answer any four questions.****Neat, labeled sketches, legible handwriting & practical examples will be appreciated.**

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