

- N.B. : (1) Question No 1 is compulsory.
 (2) Attempt any Three out of the remaining five question.
 (3) Figure to the right indicates full marks.
 (4) Illustrate your answers with proper sketches.

1. Write short note on any four of the following. 20
- (a) Rating system of green building
 (b) Layout of substation
 (c) Cooling towers
 (d) Soak pit
 (e) vibrator
 (f) water audit method
2. (a) Explain the different types of materials used for service pipes. 10
 (b) Define Lift. Explain the various types of lift used in buildings with their suitability. 10
3. (a) Explain different, building services to be provided in residential structures. 10
 (b) Explain different types of fire fighting system available and their process of handling. 10
4. (a) What do you understand by rainwater harvesting? Explain in brief different methods of rain water harvesting. 10
 (b) Define green building. Explain the materials used in green building technology with their advantages. 10
5. (a) Explain the design of modern lighting with examples. 10
 (b) What do you understand by Earthing. Explain the various types of Earthing with IS specifications. 10
6. (a) Explain transformers and switch gears. 10
 (b) Explain in brief various refrigerant control devices. 10

