

Time : 3 hours

Total Marks : 80

PLEASE NOTE:

QP. Code-10093465

1. Question No 1 is Compulsory.
2. Attempt any three questions out of the remaining questions.
3. Figures to the right indicate full marks.
4. Illustrate answers with the proper sketches.

- Q1 Answer any **four** questions of the following (20)
- a) Distinguish between Lifts and Escalators.
 - b) Discuss about the Transformers.
 - c) Write about Rainwater Harvesting.
 - d) Explain the effects of moisture and wear on concrete structures.
 - e) Write a note on Water-proofing of concrete structures.
 - f) What is Work Order?
- Q2 a) Explain the components and working Principles of HVAC System. (10)
- b) How the damage assessment is carried out through structural audit? (10)
- Q3 a) Discuss the types of Earthing with neat sketches. (10)
- b) Explain the terms Injection Grouting, Ferroconcrete and Shotcrete. (10)
- Q4 Answer **any four** questions of the following (20)
- a) What is the working Principle of Conveyors?
 - b) Discuss about the factors affecting visual task.
 - c) Elaborate with neat sketches the purpose of Water meter.
 - d) What do you mean by Durability of Concrete?
 - e) Write a note on Corrosion Inhibitors.
 - f) Define the terms Security deposit and Safety Signs.
- Q5 a) Explain with neat sketches the water distribution system. (10)
- b) Mention the temporary support structures and discuss them with neat sketches. (10)
- Q6 a) Describe with neat sketches the types and purpose of fire-fighting installations. (07)
- b) What are the objectives of the Pull- Off and Pull-Out Test? Explain any one of them. (07)
- c) Illustrate the desired properties of repair materials. (06)
