



- Q-3            Attempt all questions**
- (a) Explain the construction of floating caisson with a neat sketch and its advantages and disadvantages. **(06)**
  - (b) Discuss the steps involved in the sinking of caissons. **(04)**
  - (c) Enumerate the various safety measures to avoid the tilting and shifting of caissons. **(04)**
- Q-4            Attempt all questions**
- (a) Enumerate the various types of piles based on material, action, function, shape. **(10)**
  - (b) Write short note on pile driving techniques. **(04)**
- Q-5            Attempt all questions**
- (a) Explain the various methods of pumping to control ground water in excavations. **(08)**
  - (b) Discuss the process involve in Vibro-floatation technique with neat sketches. **(06)**
- Q-6            Attempt all questions**
- (a) Explain in detail about the process of concreting with slip formwork and the advantages and disadvantages of slip formwork. **(08)**
  - (b) Write short notes on building maintenance? **(06)**
- Q-7            Attempt all questions**
- (a) Discuss various types of the blade available for bulldozer along with their specific usage and possible movement for maneuvering. **(06)**
  - (b) Write short notes on Back Hoe. **(04)**
  - (c) Explain the different types of earth moving equipment with a neat sketch. **(04)**
- Q-8            Attempt all questions**
- (a) Enumerate the methods for water proofing in building. **(06)**
  - (b) Write short notes on the Guniting procedure in detail. **(04)**
  - (c) Explain how the fire proofing is done in buildings. **(04)**

