

- Q-3 Attempt all questions**
- (a) Define caisson and state its various uses. State various materials required for construction of caissons. **(6)**
 - (b) Explain various safety measures to avoid the tilting of caissons. **(4)**
 - (c) Write short note on caisson disease. **(4)**
- Q-4 Attempt all questions**
- (a) Briefly explain various types of piles. **(6)**
 - (b) Write a short note on: Group of piles and its efficiency. **(4)**
 - (c) Enumerate various causes for pile failure. **(4)**
- Q-5 Attempt all questions**
- (a) Explain the different types of earth moving equipment with a neat sketch. **(7)**
 - (b) Discuss the various types of transporting equipment during the time of concreting. **(7)**
- Q-6 Attempt all questions**
- (a) Explain in detail about the anti-termite treatments done in building construction. **(6)**
 - (b) Write short note on building maintenance? **(4)**
 - (c) Explain the construction features of RCC frames. **(4)**
- Q-7 Attempt all questions**
- (a) What are the uses of power shovels? Describe with neat sketch basic parts and Operation of power shovel. **(6)**
 - (b) Write short note on Back Hoe. **(4)**
 - (c) Describe different methods of field compaction of soil. **(4)**
- Q-8 Attempt all questions**
- (a) Write short note on Ready Mix Concrete with a neat sketch of RMC plant. **(6)**
 - (b) Explain various types of pumps used for pumping concrete. **(4)**
 - (c) Describe various types of vibrators used for compaction of concrete. **(4)**

