

ME CIVIL | sem II | CBCS | FH 2019

23/05/2019  
80 Marks

3 Hours

Answer any four questions.

- Q.1** (20)
- a Describe the applications of tunnel formwork system. 05
  - b Explain the working of Maglev trains. Give some examples of maglev trains throughout the world. 05
  - c Draw a labelled diagram showing various components of a thermal power plant stating the function of each component. 05
  - d Write down the stepwise procedure of diaphragm wall construction. 05
- Q.2** (20)
- a Write a detailed note on Tunnel shaft sinking. 10
  - b State the purpose of constructing: i) Caissons. ii) Cofferdams. 10
- Q.3** (20)
- a Discuss chemical based waterproofing which is preferred these days over the conventional methods. 08
  - b Discuss the equipments/techniques used for construction and maintenance of high rise structures. 08
  - c Compare conventional formwork & slipform. 04
- Q.4** (20)
- a Describe Incremental launching method of bridge construction. 10
  - b Write a detailed note explaining the steps to be taken and facilities to be installed while constructing an underground metro system. 10
- Q.5** (20)
- a Write a note on port trusts in Mumbai region alongwith the recent developments taking place in the premises. 10
  - b Explain the working of an atomic power plant with special reference to any particular atomic power plant. 10
- Q.6** (20)
- a Write short notes on : i) Underwater blasting. ii) Well point system. 10
  - b Write a detailed note on Vertical shaft sinking machine. 10
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