

ME sem II choice based first half 2018
Civil - ACT
15/5/18

Extra

Q. P. Code: 26018

3 Hours

80 Marks

Attempt any four questions.

- Q.1 Answer briefly. Each question carries 05 marks. (20)**
- Explain the working mechanism of Maglev Trains.
 - Draw a neat sketch showing various components of a RMC plant. Approximately how much space and cost is required if you have to set up a RMC plant?
 - Explain Pilot tunnel, shaft, Invert level, Heading, Drift with suitable sketch.
 - Explain the applications of Geotextiles & Geogrids in Construction practices.
- Q.2 (20)**
- Draw a neat sketch showing various components of an atomic power plant. List any 3 major atomic power plants in India with their generation capacities. 10
 - Write a detailed note (with diagram) on New Austrian Tunneling Method covering the steps involved, Cost of working, Equipments required, Applications and practical examples where it is being used. 10
- Q.3 (20)**
- Write a note on Prefabricated construction techniques covering planning for precasting, fabrication, transport, site erection & safety measures during erection. 10
 - Explain Slip-form, jump-form and modular shuttering alongwith sketches, applications, practical examples and working process. 10
- Q.4 (20)**
- Write a detailed note (with diagram) on Diaphragm wall construction covering the steps involved, Cost of working, Equipments required, Applications and practical examples where it is being used. 12
 - Explain the different types of constructions to be done for underground railway. 08
- Q.5 (20)**
- Explain Incremental launching method of Bridge construction. 08
 - Write notes on 1) Self-Compacting Concrete. 2) High performance Concrete 07
 - Differentiate between: Diaphragm wall and Secant pile construction. 05
- Q.6 (20)**
- Explain Cut holes, Rim holes, Reliever holes, Relief holes and various patterns of drilling holes for blasting in tunnel. 10
 - With a neat sketch/flowchart, Explain the working of : 10
Thermal power plant
Hydro power Plant.
