

T.E / SEM - VI / CBCS

(3 hours)

Marks: 80

10 JUN 2019

N.B.

1. Question No 1 is compulsory
2. Attempt any three questions from the remaining five questions
3. Figures to the right indicate full marks



Q1. Solve all the questions.

- a. Classify construction equipment and its important role in construction industry 05
- b. Explain modern and conventional type of formwork. 05
- c. What is the purpose and types of tunnels? Explain factors to be considered during tunneling in hard and soft rocks. 05
- d. Enlist and explain the Dewatering technique for trench 05

- Q2.
- a. Enlist the Equipment's involved in the construction of Metro Project. What construction techniques are used for setting up the metro station. 10
 - b. Enlist the different types of Drilling Equipment. Explain any one in detail with neat sketch. 10

- Q3.
- a. What is TBM. Enlist all parts of TBM. Explain working and function of TBM. 10
 - b. Enlist & explain the Factor affecting the performance of pumping equipment's 10

- Q4.
- a. Enlist the Equipments required for the construction of roads using paver machines. Explain the process in detail. 10
 - b. Enlist & Explain the Equipment Required for the construction of airport. Explain stage wise construction and equipment list. 10

- Q5.
- a. Enlist & Explain the Equipment Required for the construction of Hydropower station. 10
 - b. Explain the Construction of railway lines using track laying machine in detail. Also enlist other equipment's required. 10

- Q6. Write short notes on (any four)
- a. Mivan technique of formwork 05
 - b. Power shovel 05
 - c. GPR system 05
 - d. Tower Crane 05
 - e. Types of pile driving equipments 05
 - f. Hoisting Equipments 05