(3 hours) Marks: 80	6, 2, 2
on No 1 is compulsory	
at any three questions from the remaining five questions	
s to the right indicate full marks	
e all the questions.	10 00 00 00 00 00 00 00 00 00 00 00 00 0
What is the purpose and types of tunnels? Explain factors to be considered during tunneling in hard and soft rocks.	05 05 05
construction techniques are used for setting up the metro station.	10 10
	10 10
machines. Explain the process in detail.	10 10
station.	10 10
GPR system Tower Crane	05 05 05 05 05
	any three questions from the remaining five questions s to the right indicate full marks e all the questions. Classify construction equipment and its important role in construction industry Explain modern and conventional type of formwork. What is the purpose and types of tunnels? Explain factors to be considered during tunneling in hard and soft rocks. Enlist and explain the Dewatering technique for trench Enlist the Equipment's involved in the construction of Metro Project. What construction techniques are used for setting up the metro station. Enlist the different types of Drilling Equipment . Explain any one in detail with neat sketch. What is TBM: Enlist all parts of TBM. Explain working and function of TBM. Enlist & explain the Factor affecting the performance of pumping equipment's Enlist the Equipments required for the construction of roads using paver machines. Explain the Equipment Required for the construction of airport. Explain stage wise construction and equipment list. Enlist & Explain the Equipment Required for the construction of Hydropower station. Explain the Construction of railway lines using track laying machine in detail. Also enlist other equipment's required. Write short notes on (any four) Mivan technique of formwork Power showel GPR system Tower Crane Types of pile driving equipments

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