

**QP Code : 31773**

**CBGS**

**3 Hours**

**Total marks :80**

**Answer any four questions.**

**Neat, labeled sketches, legible handwriting & practical examples will be appreciated.**

- Q.1** (20)
- a What is Ready Mix Concrete? Explain in Detail. 10
- b Enlist various Tunneling Methods & Explain the Cut & Cover methods of Tunneling in Detail. 10
- a Explain Pneumatic Caisson in Detail with neat sketch. (20)
- b Enlist advanced formwork systems & Explain Slip Form system in Detail. 10
- Q.3** (20)
- a What are the different methods of Construction Underwater concreting? Explain Tremie Method of Underwater concreting with neat sketch. 10
- b What are the different methods of Pile Driving? Explain in Detail with sketch. 10
- Q.4** (20)
- a What is Cofferdam? Explain the factor to be considered for Construction of Cofferdam. 10
- b Explain well point system of Dewatering in detail. 10
- Q.5** (20)
- a Enlist Various types of Piles & Explain Under-reamed Pile with neat sketch. 10
- b What is Diaphragm Wall? Explain in Detail. 10
- Q.6** (20)
- Write short notes on
- a Chemical Grouting 05
- b Advantages & Disadvantages of Concrete Pile 05
- c Pumped Concrete 05
- d Tunnel Shaft Sinking 05
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**BB-Con. 9712-15.**