

**BACHELOR OF TECHNOLOGY (C.B.C.S.) (2014 COURSE)**  
**B.Tech.Sem - IV CIVIL :SUMMER- 2022**  
**SUBJECT : CONSTRUCTION TECHNIQUES & MACHINERIES**

Day : Wednesday  
Date : 22-06-2022

**S-12713-2022**

Time : 10:00 AM-01:00 PM  
Max. Marks : 60

**N.B.**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Assume suitable data wherever necessary.

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**Q.1** Explain following types of construction : **(10)**  
a) Heavy Duty b) Medium Duty c) Light Duty.

**OR**

**Q.1** What are different methods adopted for erection of high rise structures? **(10)**  
Explain advantages and disadvantages.

**Q.2** Compare advantages and disadvantages of bored piles with driven piles. **(10)**

**OR**

**Q.2** Differentiate between Cofferdams and Caissons with neat labelled sketches. **(10)**

**Q.3** What is Shotcreting and Guniting? Explain in detail. **(10)**

**OR**

**Q.3** Write a detailed note on Pneumatic Drilling Equipments. **(10)**

**Q.4** Explain following equipments with use, output and economics. **(10)**  
i) Power Shovel ii) Backhoe

**OR**

**Q.4** Write a detailed note on Group Behavior of Equipments. **(10)**

**Q.5** What are different Conveying Equipments? Explain any one in detail with neat sketch. **(10)**

**OR**

**Q.5** Explain different types of Hauling Equipments used for construction work. **(10)**  
Draw a labelled line diagram of any one.

**Q.6** Write a detailed note on Well Point System with neat labelled diagram. **(10)**

**OR**

**Q.6** Explain in detail different types of Pavers used in road construction. Explain any one in brief. **(10)**

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