

Enrollment No: \_\_\_\_\_

Exam Seat No: \_\_\_\_\_

# C. U. SHAH UNIVERSITY

## Summer Examination-2022

Subject Name: Construction Technology

Subject Code: 4TE06CNT1

Branch: B.Tech (Civil)

Semester: 6

Date: 02/05/2022

Time: 02:30 To 05:30

Marks: 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
  - (2) Instructions written on main answer book are strictly to be obeyed.
  - (3) Draw neat diagrams and figures (if necessary) at right places.
  - (4) Assume suitable data if needed.
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- Q-1 Attempt the following questions: (14)**
- a) Enlist Various types of Cofferdam (1)
  - b) What are the anti-termite treatments done in building construction. (1)
  - c) What are the uses of power shovels? (1)
  - d) What is Grouting ? (1)
  - e) Enlist various types of Caisson. (1)
  - f) Define Shallow foundation. (1)
  - g) What is Dragline? (1)
  - h) Enlist Various types of form work. (1)
  - i) What is scaffolding? (1)
  - j) What is centering? (1)
  - k) Enlist various types of Pile foundation. (1)
  - l) Enlist equipments required in R.M.C. (1)
  - m) Define needle Vibrator. (1)
  - n) Enlist Various types of Connection used in steel structure. (1)

**Attempt any four questions from Q-2 to Q-8**

- Q-2 Attempt all questions (14)**
- (a) Explain Rock-filled cofferdam with a neat sketch. (7)
  - (b) Enlist the factors affecting the selection of type of construction equipment. (7)
- Q-3 Attempt all questions (14)**
- (a) Write short notes on single walled and Double walled cofferdams with a neat sketch. (7)
  - (b) Discuss the various types of transporting equipments during the time of concreting. (7)
- Q-4 Attempt all questions (14)**
- (a) Explain the various safety measures to avoid the tilting of caissons. (7)
  - (b) Describe various types of vibrators used for compaction of concrete. (7)



