

Enrollment No: _____

Exam Seat No: _____

C.U.SHAH UNIVERSITY

Summer Examination-2017

Subject Name : Construction Technology

Subject Code : 4TE06CNT1

Branch: B.Tech (Civil)

Semester : 6

Date : 11/04/2017

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) Which type of foundation provide in bride? (1)
 - b) What do you means by friction pile? (1)
 - c) In which condition end bearing pile provide? (1)
 - d) Write different types of sheet pile coffer dam. (1)
 - e) What is cellular cofferdam? (1)
 - f) Enlist various types of material used in coffer dam. (1)
 - g) Enlist various types of pumping method of dewatering during excavation work. (1)
 - h) What is temporary work? (1)
 - i) In which construction work formworks are used? (1)
 - j) Define belt conveyer. (1)
 - k) What do you mean by hauling equipment? (1)
 - l) What are the uses of power shovel (1)
 - m) What is jacketing? (1)
 - n) What is caisson? (1)

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

- Q-2 Attempt all questions (14)**
- (a) Describe in brief the common type of cased cast in situ concrete piles giving sketches of each (7)
 - (b) What are the advantages & disadvantages of cast in situ concrete piles? (7)
- Q-3 Attempt all questions (14)**
- (a) What are factors affecting the selection of a particular type of cofferdam? (7)
 - (b) Write short note on earth fill cofferdams & rock fill coffer dam (7)
- Q-4 Attempt all questions**
- (a) Describe box caisson giving neat sketch . In which situations box caisson are (7)



adopted?

- (b) What is pneumatic caisson ? where is it adopted ? Describe the procedure for giving advantage and disadvantage (7)

Q-5 Attempt all questions (14)

- (a) Explain different type of connection in detail. (7)
(b) Describe well point system with neat sketch . What are its advantage and disadvantage ? (7)

Q-6 Attempt all questions (14)

- (a) Why the plywood formwork is preferred than the timber form work (7)
(b) Why is formwork necessary? What are the requirements of a good form work? (7)
(14)

Q-7 Attempt all questions

- (a) Write short note on RMC plant. (7)
(b) Write short note on beam jacketing and column jacketing. (7)

Q-8 Attempt all questions (14)

- (a) Enlist various types of tractors. Explain any one (7)
(b) Enlist various type of hauling equipment. Explain any one (7)

