Enrollment No:	Exam Seat No:
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C.U.SHAH UNIVERSITY

Winter Examination-2018

Subject Name: Construction Technology

Subject Code: 4TE06CNT1 Branch: B.Tech (Civil)

Semester: 6 Date: 19/10/2018 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.

Q-1 Attempt the following questions:

(14)

- a) Define caisson.
- **b**) How the leakage of cofferdam is prevented.
- c) State the various materials required for construction of caissons
- **d**) Mention the various load tests on piles.
- e) Define Grout.
- **f)** What are the materials used for pile construction?
- **g**) Enlist the requirements of a good formwork.
- h) Define RMC.
- i) Give the forms of structural steel frames.
- j) How the anti-termite treatments done in buildings.
- k) Enlist the various types of transporting equipments at the time of concreting.
- 1) List the factors affecting the selection of type of construction equipment.
- m) What are the different types of vibrators used for compaction of concrete?
- **n)** Mention the uses of power shovels.

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

Q-2 Attempt all questions

- (a) Enumerate the various types of coffer dams and explain any two in detail. (10)
- (b) Explain the factors considered for the selection of Cofferdams. (04)



Q-3		Attempt all questions	
	(a)	Explain the construction of floating caisson with a neat sketch and its advantages	(06)
		and disadvantages.	
	(b)	Discuss the steps involved in the sinking of caissons.	(04)
	(c)	Enumerate the various safety measures to avoid the tilting and shifting of	(04)
		caissons.	
Q-4		Attempt all questions	
	(a)	Enumerate the various types of piles based on material, action, function, shape.	(10)
	(b)	Write short note on pile driving techniques.	(04)
Q-5		Attempt all questions	
Q-3	(a)	Explain the various methods of pumping to control ground water in excavations.	(08)
	(b)	Discuss the process involve in Vibro-floatation technique with neat sketches.	(06)
	(,,,		(**)
Q-6		Attempt all questions	
Q-6	(a)	Attempt all questions Explain in detail about the process of concreting with slip formwork and the	(08)
Q-6	(a)		(08)
Q-6	(a) (b)	Explain in detail about the process of concreting with slip formwork and the	(08)
		Explain in detail about the process of concreting with slip formwork and the advantages and disadvantages of slip formwork. Write short notes on building maintenance?	
Q-6 Q-7	(b)	Explain in detail about the process of concreting with slip formwork and the advantages and disadvantages of slip formwork. Write short notes on building maintenance? Attempt all questions	(06)
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