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

Summer Examination-2018

Subject Name: Construction Technology

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

Semester: 6 Date: 23/04/2018 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) What is a Cofferdam?
- **b)** Write various factors for the selection of Cofferdams.
- c) What are the steps of sinking of caissons?
- **d)** Enlist the types of caissons.
- e) Define pile foundation.
- **f)** What are the uses of piles?
- **g**) Enlist the various materials used for formwork.
- **h**) Define formwork.
- i) Enlist the types of tower crane.
- j) Write the advantages of ready mix concrete.
- **k**) Enlist the methods for water proofing in building.
- 1) Enlist the factors affecting the selection of type of construction equipment.
- m) What are the different types of steel sections available for construction?
- n) Define Grout.

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

Q-2 Attempt all questions

- (a) Enumerate various types of coffer dams and explain any two in detail. (10)
- **(b)** Explain how the leakage of cofferdam is prevented.





Q-3		Attempt all questions	
	(a)	Define caisson and state its various uses. State various materials required for	(6)
		construction of caissons.	
	(b)	Explain various safety measures to avoid the tilting of caissons.	(4)
	(c)	Write short note on caisson disease.	(4)
Q-4		Attempt all questions	
	(a)	Briefly explain various types of piles.	(6)
	(b)	Write a short note on: Group of piles and its efficiency.	(4)
	(c)	Enumerate various causes for pile failure.	(4)
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Q-5	()	Attempt all questions	(5)
	(a)	Explain the different types of earth moving equipment with a neat sketch.	(7)
	(b)	Discuss the various types of transporting equipment during the time of	(7)
		concreting.	
Q-6		Attempt all questions	
Q-6	(a)	Attempt all questions Explain in detail about the anti-termite treatments done in building construction.	(6)
Q-6	(a) (b)		(6) (4)
Q-6	` ′	Explain in detail about the anti-termite treatments done in building construction.	` '
	(b)	Explain in detail about the anti-termite treatments done in building construction. Write short note on building maintenance? Explain the construction features of RCC frames.	(4)
Q-6 Q-7	(b) (c)	Explain in detail about the anti-termite treatments done in building construction. Write short note on building maintenance? Explain the construction features of RCC frames. Attempt all questions	(4) (4)
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