

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

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

# C.U. SHAH UNIVERSITY

## Winter Examination-2019

**Subject Name: Construction Technology**

**Subject Code: 4TE06CNT1**

**Branch: B.Tech (Civil)**

**Semester: 6**

**Date: 09/09/2019**

**Time: 10:30 To 01:30**

**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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<b>Q-1</b>	<b>Attempt the following questions:</b>	<b>(14)</b>
a)	Enlist material used for caisson	1
b)	Which material is used in form work	1
c)	Enlist different types of earth moving equipment.	1
d)	What is pile?	1
e)	In which condition end bearing piles are provided?	1
f)	Define belt conveyer	1
g)	What are the uses of power shovel	1
h)	Enlist various types of pumping method of dewatering during excavation work.	1
i)	Write the advantages of ready mix concrete.	1
j)	Define Grouting.	1
k)	What are the different types of steel sections available for construction?	1
l)	Enlist the methods for water proofing in building.	1
m)	Which type of foundation provide in bridge?	1
n)	What is pneumatic caisson?	1

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

<b>Q-2</b>	<b>Attempt all questions</b>	<b>(14)</b>
a)	Discuss the main factors affecting selection of type of pile	7
b)	Describe the method of constructing a double wall coffer dam	7



<b>Q-3</b>	<b>Attempt all questions</b>	<b>(14)</b>
a)	Describe box caisson giving neat sketch . In which situations box caisson are adopted	7
b)	Explain different type of connection in detail.	7
<b>Q-4</b>	<b>Attempt all questions</b>	<b>(14)</b>
a)	Write comparison of precast and cast- in-situ concrete.	7
b)	Write necessity of dewatering of foundations and techniques used in it, like well point system.	7
<b>Q-5</b>	<b>Attempt all questions</b>	<b>(14)</b>
a)	What is tunneling and explain utility of micro tunneling.	7
b)	Draw all types of shoring like raking, dead and flying shore.	7
<b>Q-6</b>	<b>Attempt all questions</b>	<b>(14)</b>
a)	Explain the different types of earth moving equipment with a neat sketch.	7
b)	Explain in detail about the anti-termite treatments done in building construction.	7
<b>Q-7</b>	<b>Attempt all questions</b>	<b>(14)</b>
a)	Write short note on Ready Mix Concrete with a neat sketch of RMC plant.	7
b)	Describe the timber form work	7
<b>Q-8</b>	<b>Attempt all questions</b>	<b>(14)</b>
a)	Write a note on special equipment and standard equipment	7
b)	Give learning outcomes from construction technology subject	7

