

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

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

# C.U.SHAH UNIVERSITY

## Winter Examination-2019

**Subject Name : Concrete Technology**

**Subject Code : 4TE03CNT1**

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

**Semester : 3**

**Date : 26/11/2019**

**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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<b>Q-1</b>	<b>Attempt the following questions:</b>	<b>(14)</b>
a)	Mention the laboratory test to find soundness of cement.	1
b)	Define Gap grading.	1
c)	Mention role of coarse aggregate in concrete.	1
d)	What is admixture?	1
e)	Define workability.	1
f)	Differentiate between volume batching and weigh batching in concrete mixing.	1
g)	Define creep	1
h)	What is carbonation?	1
i)	Distinguish between nominal mix and design mix.	1
j)	List the main purpose of accelerated curing test.	1
k)	What are the applications of ultrasonic pulse velocity testing?	1
l)	Expand NDT.	1
m)	Differentiate between Ordinary concrete and Special concrete.	1
n)	What is the modulus of elasticity of concrete?	1

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

<b>Q-2</b>	<b>Attempt all questions</b>	<b>(14)</b>
(a)	Explain the procedure of 'Rebound hammer test' with a neat sketch.	(07)
(b)	Describe the tests performed on hardened concrete and explain any one in detail.	(07)



