

Enrollment No: _____

Exam Seat No: _____

C.U.SHAH UNIVERSITY

Summer Examination-2017

Subject Name : Concrete Technology

Subject Code : 4TE03CNT1

Branch: B.Tech (Civil)

Semester : 3

Date :03/04/2017

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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- Q-1 Attempt the following questions (14)**
- a) How much temperature required for manufacturing of clinkers In dry process? (1)
 - b) What is the role of cement in concrete? (1)
 - c) Write full form of PPC (1)
 - d) What is the difference between PPC and OPC? (1)
 - e) What is the reason of segregation in concrete? (1)
 - f) Why gypsum is added in cement production? (1)
 - g) Which type of water required in concrete production? (1)
 - h) What is the size of cement particles? (1)
 - i) Define workability (1)
 - j) What is minimum size of coarse aggregate? (1)
 - k) What do you means by flaky aggregate? (1)
 - l) Which grade of concrete include in high strength concrete? (1)
 - m) What is heat of hydration? (1)
 - n) What is non destructive testing of concrete? (1)

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

- Q-2 Attempt all questions (14)**
- (a) Explain wet process of manufacturing of cement. (7)
 - (b) Which are the factors affecting strength of concrete? Explain any two of them (7)

- Q-3 Attempt all questions (14)**
- (a) How will you check the cement on field? How is the field testing importance? (7)
 - (b) Explain compaction factor test. (7)

- Q-4 Attempt all questions**
- (a) What is soundness of cement? How it can be tested in the laboratory? (7)
 - (b) Give the classification of aggregate based on shape. (7)



