

Total No. of Questions : 5

Total No. of Printed Pages : 2

UITians

EKS-326

**B.E. IV Semester (CGPA) Civil Engg.
Examination 2017**

CONCRETE TECHNOLOGY

Paper : CE-401

Time Allowed : Three Hours

Maximum Marks : 60

- Note :** i) Attempt all questions.
ii) All questions carry equal marks.

- Q.1. a) What do you understand by grading of concrete?
Explain the various grades of concrete as per
IS-456:2000. 6
b) Explain the various ingredients of concrete. 6

OR

- a) What are admixtures? Differentiate between
accelerating and retarding admixtures. 6
b) Write a short note on "Use of sea water for mixing
concrete". 6

- Q.2. a) Explain "rheology of concrete". 6
b) Differentiate between creep and fatigue. 6

OR

(2)

- a) Describe the factors affecting the workability of concrete. 6
- b) What are non-destructive tests? Explain any one in detail. 6

- Q.3.
- a) What are pozzolanic materials? Discuss any one of them with its uses. 6
 - b) Describe the factors influencing the choice of mix design. 6

OR

Explain IS code method of mix design in detail. 12

- Q.4.
- a) How is inspection of concrete done? 6
 - b) Explain underwater concreting. 6

OR

- a) Explain in short, the stages of repair of concrete. 6
- b) Describe statistical quality control of concrete. 6

- Q.5.
- a) Differentiate between shotcrete and guniting. 6
 - b) Explain "Ferrocement". 6

OR

- a) Differentiate between prestressed concrete and reinforced concrete. 6
- b) Describe Ready Mix Concrete. 6

