Unit II

Roll No.

Total Pages: 03

BT-5/D-18 35157 CONCRETE TECHNOLOGY **CE-311N**

me: Three Hours]

[Maximum Marks: 75

Note: Attempt Five questions in all, selecting at least one question from each Unit. All questions carry equal marks.

Unit I

- What are the advantages of concrete? Explain. List (a) the various grades of concrete. What is the significance of grades?
 - List the various physical tests to be performed on cement. Explain any one in detail. 7
- Write a short note on bulking and grading of fine (a) aggregates. 7
 - List the various properties of the aggregates used for the concrete. Explain.

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List the various factors affecting the workability of concrete. Explain any two in detail. Define workability of concrete. List various methods (b) and explain any one.

Explain in brief: Batching, Mixing, Transportation. compaction and curing of concrete. 3×5=15

Unit III

What do you understand by Non-destructive testing of concrete? Explain, why these tests are performed? List the various test performed on concrete. Explain any one in detail. http://www.kuonline.in 15

Explain in detail the corrosion of embedded steel in 6. (a) concrete.

List the various causes of the concrete deterioration. (b) How will you prevent the deterioration of concrete.

Unit IV

7. How will you evaluate the cracks in concrete? List (a) the various techniques for repair of cracks. 8

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(a)

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(b) Discuss the various techniques for underwater repair of concrete.7

- 8. Write short notes on the following:
 - (a) Fibre R/F concrete
 - (b) Shortcrete
 - (c) Polymer concrete.

5×3=15

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