



InSem Examination-II Summer 2024		
Exam Seat No.:		
Academic Year:2023-2024	Semester:IV	
Name of Programme : S.Y B.Tech (Civil Engineering)	Pattern:2022	
Name of Course:Concrete Technology	Course Code: CIV222013	
Max. Marks: 30	Duration:1 Hour	

<p>Instructions: Candidates should read carefully the instructions printed on the Question Paper and on the cover page of the Answer Book, which is provided for their use.</p> <ol style="list-style-type: none">1. This question paper contains 2 pages.2. Answer to each new question is to be started on a new page.3. Assume suitable data wherever required, but justify it.4. Draw the neat labelled diagrams, wherever necessary.5. The last columns indicates the Course Outcome.

Question No. 1 Attempt following Question

- a) Enlist types of cement and State any one type of cement with applications? (5) CO1

OR

- b) Enlist the tests on Aggregates and State any one? (5) CO1

- c) What are Bogue's compounds? Explain the significance of each compound? (5) CO1

OR

- d) Explain heat of hydration in cement? (5) CO1

- e) Enlist the types of Admixtures. State different functions of Admixtures. (5) CO1

OR

- f) Define the effect of Sea water in concrete? (5) CO1

Question No. 2 Attempt following Question

- a) Explain creep of concrete. What are the factors affecting on creep of concrete? (5) CO3

OR

- b) Explain the compressive strength of concrete. How it is determined in laboratory ? (5) CO3

- c) Explain the relation between compressive and tensile strength of concrete ? (5) CO3

OR

d) Explain the effect of water cement ratio and effect of maximum size of aggregate on the strength of Concrete ? (5) CO3

e) Enlist Non-Destructive tests for Concrete. Explain Rebound hammer Method? (5) CO3

OR

f) State the Effect of water cement ratio on fresh concrete. (5) CO3

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