

**VIT**Vellore Institute of Technology
(Deemed to be University under section 3 of U.G.A. Act, 1956)**SCHOOL OF CIVIL ENGINEERING
CONTINUOUS ASSESSMENT TEST – II
WINTER SEMESTER 2023-2024**

SLOT: A1

401

-4

Programme Name & Branch : B. Tech Civil Engineering
Course Code : BCLE301L
Course Name : Concrete Technology
Faculty Name(s) : Dr. T. Meena, Dr. OM. Suganya
Class Number(s) : 0500 & 0497
Exam Duration : 90 minutes

Maximum Marks: 50**General instruction(s):**

- Open Book Test
- Answer all questions

| Q. No | Question | Marks |
|-------|---|-------|
| 1. | Without causing damage to concrete, how will you assess the concrete quality? Describe two methods in detail with neat sketches. | 10 |
| 2. | Once concrete is cast how will you ensure the proper supply of water for its hydration? List and explain the methods briefly. | 10 |
| 3. | What do you mean by underwater concreting? What are the difficulties in it? Explain any one method in detail with neat sketch. | 10 |
| 4. | Explain the causes, effects, and strategies to reduce permeability. Also explain how it affects the durability of concrete. | 10 |
| 5. | a) Explain how corrosion of reinforcement occurs in concrete? b) What happens to concrete's durability due to soil rich in sulphate? | 10 |
