



**NAME OF THE SCHOOL**  
**CONTINUOUS ASSESSMENT TEST - II**  
**FALL SEMESTER 2024-2025**

**SLOT: F 1+TF1**

**Programme Name & Branch** : BTECH - Computer Science and Engineering and Business Systems  
**Course Code and Course Name** : CHY 1002; ENVIRONMENTAL SCIENCES  
**Faculty Name(s)** : Dr. R. Gopi ; Dr. Srinivasan Latha  
**Class Number(s)** : VL2024250106818 ; 6820  
**Date of Examination** : 18-10-24 [2 p.m. to 3.30 p.m]  
**Exam Duration** : 90 minutes Maximum Marks: 50

**General instruction(s):** Students are allowed to carry their self-handwritten notebook/ textbook to the examination.

- Answer All Questions. Draw neat diagrams appropriately
- M - Max mark; CO - Course Outcome; BL - Blooms Taxonomy Level (1 - Remember, 2 - Understand, 3 - Apply, 4 - Analyse, 5 - Evaluate, 6 - Create)
- **Course Outcomes**
- **CO 4:** Students will identify various environmental hazards.
- **CO 5:** Students will design various methods for the conservation of resources.
- **CO 6:** Students will formulate action plans for sustainable alternatives that incorporate science, humanity and social aspects.

| Q.No | Question                                                                                                                                                                                                                         | M  | CO | BL |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|
| 1.   | Water is at the centre of a country's development. <b>Compare</b> the terms water footprint, virtual water and blue revolution. Give four examples that can be adopted to reduce the utilization of virtual water.               | 10 | 6  | 2  |
| 2.   | <b>Interpret</b> how human activities contribute to chemical hazards and <b>articulate</b> two suggestions to mitigate the hazards at the individual level.                                                                      | 10 | 4  | 3  |
| 3.   | a) <b>Choose</b> any one solid waste disposal method and record reasons why that method is the best one.                                                                                                                         | 5  | 6  | 3  |
|      | b) <b>Determine</b> the criteria for setting up a wind farm for optimum output of energy.<br><i>4-20 marks 12 up to 10 marks</i>                                                                                                 | 5  |    |    |
| 4.   | <b>Describe</b> the advantages of harnessing solar energy in our country and list any five-government schemes related to solar energy.                                                                                           | 10 | 5  | 1  |
| 5.   | Long-term environmental impact of harnessing ocean thermal energy affects marine ecosystems. <b>Examine</b> the strategies that could be employed to mitigate any potential negative effects while maximizing the energy output. | 10 | 5  | 3  |