

**COLLEGE OF ENGINEERING AND TECHNOLOGY**

**SCHOOL OF BIOENGINEERING, DEPARTMENT OF CHEMICAL ENGINEERING A**

**B. Tech. OPEN ELECTIVE**

**ACADEMIC YEAR 2023-24 – ODD SEMESTER**

**Continuous Learning Assessment I**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Reg. No. | R | A |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| Course Code: **18CHO104T** | Course Title: **Process Plant Safety** | | |
| Sem & Year: V & III year | Date: 17/08/2023 | Duration: 60 Minutes | Max. Marks: 25 |

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|  | **Course Outcomes (COs)** | **Program Outcomes (POs)** | | | | | | | | | | | | | **PSOs** | | | |
|  |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | | 2 | 3 |
| **CO1** | *Understand the basics of Industrial Safety Management* | 2 | *-* | *-* | *-* | *-* | *-* | *-* | *-* | *-* | *-* | *-* | *1* | - | | - | - |

**Part A Answer ALL Question 5x1 Marks = 5 Marks**

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| **Q. No.** | **Questions** | **Correct option** | **CO** | **BL** | **PO** | **Marks Scored** |
| 1. | Which of the following precautions is/are necessary in electrical work?   1. The equipment’s should be earthed properly 2. Cable should be completely insulated 3. Cable should have any joints 4. Both (A) and (B) |  | 1 | L1 | 12 |  |
| 2. | What should an employee do who notices a risk in the workplace?   1. Ignore the risk 2. Report it to the health and safety officer 3. Report it to the supervisor 4. Make it safe before management sees it |  | 1 | L2 | 12 |  |
| 3. | Identification of possible hazards in a workplace is   1. Safety policy 2. Safety Inspection 3. Safety Promotion 4. Safety supervision |  | 1 | L1 | 1 |  |
| 4. | Who is the responsible person for safety education and training for the employees?   1. Top management 2. Safety Inspector 3. Safety Supervisor 4. Safety Engineer |  | 1 | L1 | 12 |  |
| 5. | The poisonous gas which is evolved during Bhopal gas leak is   * 1. Phosgene   2. Methane   3. Ethyl isocyanate   4. Methyl isocyanate |  | 1 | L2 | 12 |  |

**Part B Answer any two Questions 2 x 10 Marks = 20 Marks**

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| **Q. No.** | **Questions** | **Marks** | **CO** | **BL** | **PO** | **Marks Scored** |
| 6. | Explain the principle, requirements and objectives of Safety Policy. Discuss how the safety policies in an organization can be developed? | 10 | 1 | L2 | 1 |  |
| 7. | How the communication process works? Discuss the types of communication followed in industries. | 10 | 1 | L1 | 12 |  |
| 8. | Discuss the importance of safety education and training and explain the types/methods practiced in industries. | 10 | 1 | L1 | 1 |  |

**% of CO attainment is above 75% - Level 3 % of CO attainment is 60% -75% - Level 2**

**% of CO attainment is 50% -60% - Level 1 % of CO attainment is below 50% - Level 0**

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|  | **Quality** | **Max Marks** | **Marks Scored** | **% of Marks** |
| **CO1** | **L1 = 23 Marks** | **25** |  |  |
| **L2 = 12 Marks** |
| POs/PSOs: | **1,12** | | | |