

**COLLEGE OF ENGINEERING AND TECHNOLOGY**

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

**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 Questions 5x1 Marks = 5 Marks**

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| **Q. No.** | **Questions** | **Correct option** | **CO** | **BL** | **PO** | **Marks Scored** |
| 1. | Which of the following is not a domain for the occurrence of industrial accidents?   * 1. Storage   2. Process plant   3. Utilities   4. Reservoirs |  | 1 | L2 | 12 |  |
| 2. | When was the attempt to transfer MIC from tank 610 to the processing facility failed?   * 1. 1980   2. 1981   3. 1982   4. 1984 |  | 1 | L2 | 12 |  |
| 3. | The main importance in a safety program is   * 1. Accident investigation and analysis   2. Risk analysis   3. Hazard analysis   4. Corrective actions |  | 1 | L1 | 1 |  |
| 4. | The attitude, beliefs, perceptions and values that employees share in relation to safety in the workplace is termed as   * 1. Safety policy   2. Safety culture   3. Safety promotion   4. Safety Rule |  | 1 | L1 | 1 |  |
| 5. | ---------- is the combination of training and knowledge sharing   * 1. Safety planning   2. Safety Policy   3. Safety Promotion   4. Safety culture |  | 1 | L1 | 1 |  |

**Part B Answer any two of the following 2 x 10 Marks = 20 Marks**

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| **Q. No.** | **Questions** | **Marks** | **CO** | **BL** | **PO** | **Marks Scored** |
| 6. | (i) Explain briefly on OSHA.  (ii) Discuss the probable causes and impacts of industrial accidents. | 10 | 1 | L1 | 12 |  |
| 7. | Explain the various methods of safety education and training in the industries. | 10 | 1 | L2 | 1 |  |
| 8. | What is a Safety committee? Mention important activities, function and benefits. | 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** | | | |