Name:.....
Roll No:.....

**MAR ATHANASIUS COLLEGE OF ENGINEERING (AUTONOMOUS),**
**KOTHAMANGALAM - 686666**
**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**B.TECH FIRST SERIES EXAMINATION, AUGUST 2026 (S7 CSE, CSE (DS) & AI & ML)**
**MCN401 INDUSTRIAL SAFETY ENGINEERING**

Max. Marks: 40 Duration: 1.5 Hours

**PART A**

***Answer all questions. Each question carries 3 marks.***

1. Explain any three unsafe acts and unsafe conditions that are responsible for accidents in industries. (CO1)
2. Name any six responsibilities of a safety officer. (CO1)
3. Explain the significance of the work permit system and its types. (CO2)
4. Explain the role of management & employees in housekeeping. (CO2)

**PART B**

***Answer all questions. Each question carries 14 marks.***

5. List the various accident causation theories and explain any two with the help of suitable diagrams. (CO1)
6. Classify the personal protective equipment (PPE) used in industries. Explain the applications of any six types of PPE. (CO2)

---

**VISION**

Mould competent professionals to serve as a valuable resource for society in pursuit of excellence.

**MISSION**

- Provide quality education in Computer Science to equip students with cutting-edge technologies.
- Mould disciplined and socially committed engineers capable of professional leadership.
- Promote theoretical and practical understanding, along with critical thinking and logical reasoning.