MAR ATHANASIUS COLLEGE OF ENGINEERING, KOTHAMANGALAM

(Government Aided Autonomous Institution)

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

First Sessional Examination August 2026

S7 EEE – INDUSTRIAL SAFETY ENGINEERING (MCN401)

Max. Marks :40 Time : 1.5 Hours

Answer all questions

PART A (3 X 4=12 Marks)

1. Explain the concept of three pillars of business organizations. **(CO1)**
2. List any important six duties of a safety officer towards the safety measures in an organization. **(CO1)**
3. What is respiratory protective equipment (RPE)? Explain the feature of any one type of RPE. **(CO2)**
4. Name different types of PPE's. **(CO2)**

PART B (2 x 14=28 Marks)

5. Discuss the various accident causation theories and explain any two in detail with relevant schematics. **(CO1)** **(14 marks)**
6. Define housekeeping. Explain the 5S Concept of house keeping and list its advantages and disadvantages. **(CO2)** **(14 marks)**

CO1: Ability to learn about different causes of accidents and take preventive measures for industrial accidents.
CO2: Ability to acquire knowledge about personal protection in the work environment using personal protective equipment, housekeeping and work permit system.

VISION

Endeavour to Ensure Excellence

MISSION

Mould technically competent and morally strong Engineers
Achieve dynamic leadership through quality Education
Cater to the needs of industry and community through Emulation
Empower the students to serve the nation with Dedication