MAR ATHANASIUS COLLEGE OF ENGINEERING, KOTHAMANGALAM

(Government Aided Autonomous Institution)

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Second Sessional Examination October 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. What are the safety precautions to be taken before entering a confined space. **(CO3)**
2. Explain any important four safety practices in excavation work. **(CO3)**
3. Summarize the different safety issues in gas welding operations. **(CO4)**
4. State the importance of material handling. **(CO4)**

PART B (2 x 14=28 Marks)

5. a. Distinguish ladders and scaffolds along with their safety features. **(7 Marks) (CO3)**
   b. You are appointed as a safety manager for a demolition work of a 10-storey building in a congested residential area. What are the safety measures that you need to ensure for the completion of the work? **(7 Marks) (CO3)**

6. a. With suitable sketches Explain the operation of any two types of safety guards suitable for industrial applications. **(8 Marks) (CO4)**
   b. Explain the potential hazards associated with grinding operations. **(6 Marks) (CO4)**

CO3: Students will be able to understand different issues in construction industries.
CO4: Students will be able to understand various hazards associated with different machines and mechanical material handling.

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