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Question Paper Code: U8365

B.E. / B.Tech. DEGREE EXAMINATION, APRIL / MAY 2025

One Credit Course

Electrical and Electronics Engineering

21UEE865 – INDUSTRIAL SAFETY MEASURES

(Regulations 2021)

Duration: 1.30 Hours

Maximum: 50 Marks

Answer All Questions

PART A - (10 x 1 = 10 Marks)

1. (a) Identify the essential Personal Protective Equipment (PPE) required in a welding environment and explain how each equipment is correctly used. CO1- Ana (10)

Or

- (b) Analyze a case where improper ergonomic safety measures led to workplace injuries. Suggest corrective actions.. CO2-Ana (10)

PART – B (2 x 20 = 40 Marks)

2. (a) Develop the emergency response planning process in an industrial setup, including evacuation procedures, first aid measures, and crisis management strategies. CO1- App (20)

Or

- (b) Develop a comprehensive safety plan for a chemical plant that deals with hazardous substances. CO1- App (20)

3. (a) Analyze the importance of regular safety audits in a construction site, evaluating their role in identifying hazards such as fall risks, equipment malfunctions, and environmental dangers. Discuss how audits contribute to worker safety and legal compliance. CO2-Ana (20)

Or

- (b) Analyze the effectiveness of leading indicators (e.g., safety training, safety inspections) in identifying potential hazards before accidents occur. Compare them to lagging indicators (e.g., accident reports, injury rates) and evaluate their ability to prevent workplace accidents. CO2- Ana (20)

