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Question Paper Code:U9903

B.E./B.Tech. DEGREE EXAMINATION, APRIL 2024

Professional Elective

Mechanical Engineering

21UMEV903- INDUSTRIAL SAFETY

(Regulations 2021)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

1. Explain the Mechanical Hazards. CO1 U
2. Explain the factors contributing to industrial fire. CO1 U
3. Outline of Reliability in maintenance CO3 Ana
4. Difference between preventive and corrective maintenance CO1 U
5. Classification of corrosion. CO3 Ana
6. Explain the splash lubrication system CO1 U
7. Explain the decision tree analysis. CO1 U
8. Explain the fault tracing. CO1 U
9. Explain the repair cycle. CO1 U
10. Describe two specific activities involved in preventive maintenance of electrical equipment. CO3 Ana

PART – B (5 x 16= 80Marks)

11. (a) Explain the Health provisions and safety provisions for workers in Factory Act 1948. CO1 U (16)
Or
(b) Explain in detail about various types of fire extinguishers. CO1 U (16)
12. (a) Classify the maintenance tools and applications of tools used for maintenance CO2 App (16)
Or

- (b) What are the different Types of Maintenance? CO2 App (16)
13. (a) Classification of wear in detail explain CO1 U (16)
Or
- (b) Explain the wear reduction methods. CO1 U (16)
14. (a) Construct the decision tree for fault tracing in pump CO2 App (16)
Or
- (b) Construct the decision tree for fault tracing in air compressor. CO2 App (16)
15. (a) Explain in detail about concept, needs and repairing schemes of CO1 U (16)
periodic maintenance.
Or
- (b) Explain in detail about any one of the mechanical components CO1 U (16)