Reg. No. : E N G G T R E E . C O M

Question Paper Code: 20752

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2023.

Fifth Semester

Mechanical Engineering

CME 388 — INDUSTRIAL SAFETY

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(Regulations 2021)

Time: Three hours

Maximum: 100 marks

Answer ALL questions.

PART A \rightarrow (10 × 2 = 20 marks)

- 1. Mention some special provisions given by Factories Act, 1948.
- List the types of accidents. Www.EnggTree.com
- Define maintenance.
- 4. What is service life of equipment?
- 5. List different methods of lubrication.
- List any four factors affecting corrosion.
- 7. What is the importance of fault tracing?
- 8. Mention the probable cause for excessive nose in the gear box.
- 9. What is over hauling?
- 10. Explain the need for degreasing in the maintenance of machinery.

PART B — $(5 \times 13 = 65 \text{ marks})$

11. (a) Summarize the mechanical hazards and the basic requirements of mechanical guards.

Or

(b) Explain briefly about Fire prevention and firefighting, equipment and methods.

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12. (a) Write short notes on Primary and Secondary functions and responsibilities of maintenance department.

Or

- (b) Explain briefly about different types of maintenance strategies.
- 13. (a) Explain different types of wear with neat sketches.

Or

- (b) List different methods of preventing corrosion and elaborate any two methods.
- 14. (a) Describe the fundamental principles, methodologies and practical applications of FTA.

Or

- (b) Explore the key components and decision nodes involved in creating a comprehensive decision tree for troubleshooting boiler issues.
- 15. (a) Explore the step-by-step procedures involved in the overhaul of electric motors and delve into the troubleshooting methodologies to address prevalent issues.

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Or

(b) Explain the essential steps and procedures involved in the periodic and preventive maintenance of machine tools.

PART C —
$$(1 \times 15 = 15 \text{ marks})$$

16. (a) Develop a comprehensive exploration of strategies to mitigate wear in machinery and components, with a focus on practical applications and real-world case studies.

Or

(b) Develop a comprehensive decision tree to troubleshoot and address problems in an air compressor system, considering a real-life case study.

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