

Roll No.

Total No. of Pages : 02

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M.Tech. (EE/ECE/POWER SYSTEM) (Sem.-3)

INDUSTRIAL SAFETY

Subject Code : MTOE-301B-18

M.Code : 76544

Date of examination:14-12-2022

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. Attempt any FIVE questions out of EIGHT questions.

2. Each question carries TWELVE marks.

1. (a) Describe the significance of safety in an Industrial scenario.
(b) Discuss various types of accidents at workplace. Also explain the causes of accidents and preventive steps to prevent these accidents.
2. (a) Explain the salient features and implications of The Factories Act 1948 with regards to safety.
(b) Discuss, the safety color codes used in Industries and explain their applications.
3. (a) What is the significance of maintenance engineering department in an Industrial organization?
(b) How do organizations evaluate maintenance cost? What is the function of maintenance cost in replacement analysis?
4. How can you classify different types of maintenance practices followed in an Industrial organization? Give brief account of these maintenance practices giving their advantages, limitations and applications.
5. (a) What do you understand by Wear? What are different types of wear mechanisms? Explain.
(b) Explain various types of lubricants used in Industry for wear reduction.

6. (a) Define Corrosion. Explain various types of corrosion mechanisms.
(b) What is the decision tree? How do organizations deploy decision tree for fault tracing?
7. (a) Explain the common types of faults in machine tools and their general causes. ^
(b) What do you understand by periodic inspection? Explain the importance of regular degreasing, cleaning and repairing of industrial equipment.
8. (a) Define preventive maintenance. Explain the advantages, limitations and applications of preventive maintenance of industrial equipment.
(b) Explain the steps/procedure for periodic and preventive maintenance of D.G. sets.

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