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Question Paper Code:U9903

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

Professional Elective

Mechanical Engineering

21MEV903- INDUSTRIAL SAFETY

(Regulations 2021)

Duration: Three hours Maximum: 100 Marks

	Answer ALL Questions								
PART A - $(10 \times 2 = 20 \text{ Marks})$									
1.	1. Classify the classes of fire.								
2.	2. Explain in detail about Electrical exposure.								
3.	. Difference between preventive and corrective maintenance								
4.	Explain the Maintenance Cost								
5.	5. List the micro- level action followed in abrasive wear modes.								
6.	6. Describe one method for reducing wear in mechanical systems.								
7.	Explain the fault tracing.	CO1 U							
8.	8. Describe the first step in the sequence of fault-finding activities.								
9. Identify two potential consequences of neglecting preventive maintenance on industrial machinery.									
10.	Explain how periodic and preventive maintenance strategies can lead to energy savings in a manufacturing facility.	CO3 Ana							
	PART – B (5 x 16= 80Marks)								
11.	(a) Explain the two types of electrical hazards in workplaces and CO1 outline specific preventive steps for each.	U (16)							
	Or	/4 ->							
	(b) Explain in detail about the safety precautions to be followed in CO1	$U \qquad (16)$							

(b) Explain in detail about the safety precautions to be followed in CO1 U (16) pressure vessel.

12. (a) Classify the maintenance tools and applications of tools used for CO2 App (16)maintenance Or (b) What are the different Types of Maintenance? CO₂ App (16)13. (a) Discuss the potential effects of these wear types on the CO1 U (16)performance and service life of machinery. (b) Identify and describe two specific types of corrosion, providing an CO1 U (16)example of where each might commonly occur in an industrial setting. 14. (a) Construct the decision tree for fault tracing in pump CO₂ App (16)(b) Construct the decision tree for fault tracing in air compressor. CO₂ App (16)15. (a) Explain about the concept of repair cycle CO1 U (16)(b) Discuss about the overhauling of electric motor and common CO1 U (16)troubles involved in it with remedies.