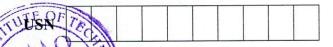
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Time 3 hrs

BANGALORE

Seventh Semester B.E. Degree Examination, Dec.2024/Jan.2025 Industrial Safety

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

		Module-1	
1	a.	Define the following terms as related to industrial safety:	
		i) Accident	
		ii) Slip	
		iii) Hazard	
		iv) Precaution	(10 Marks)
	b.	List and briefly discuss the steps for safer lockout/tagout programs.	(10 Marks)
		OR	
2	a.	What are the type of standard used in occupation safety and health administration	n (OSHA)?
			(10 Marks)
	b.	What is unsafe act and unsafe conditions that lead to industrial accidents?	(10 Marks)
		Module-2	
3	a.	List the various classes of fire explain in brief.	(08 Marks)

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Explain the steps to be taken after the occurrence of fire.

4 a. What is fire triangle explain in brief with a line diagram.

b. Write a notes on:

(08 Marks)

i) Fire extinguishersii) Safety sign boards

iii) Fire protection and loss prevention.

(12 Marks)

(12 Marks)

Module-3

5 a. What is Personal Protective Equipment (PPE)? Mentions their applications.
b. Explain the safety precautions to be taken during welding.
c. Explain safety procedures followed during working with machine tools.
(06 Marks)
(07 Marks)

OR

a. What are various mechanical hazards in industry? Explain. (10 Marks)
b. What procedure is to be followed while disposing an empty compressed gas cylinder and water drum containers. (10 Marks)

Module-4

a. What is an Electric shock? Mention causes of electric accidents.
 b. Discuss the process of achieving electrically safe work conditions.

(10 Marks)
(10 Marks)

OR

8 a. Discuss the effect of electric current on human body.

(10 Marks)

b. Write a short notes on:

10

i) Safety precautions in electric plant

ii) Fuse, circuit breakers and overload relays.

(10 Marks)

Module-5

9 a. List the inspection criteria check list for pinning in an LPG installations.

(10 Marks)

b. What is labeling of chemicals? Mention their importance.

(10 Marks)

OR

BANGALORE - 560 037

a. Discuss the safety precautions for a vechicular use of CNG.

(10 Marks)

b. Discuss safety policy of the company and loss prevention and control and risk assessment.

(10 Marks)