

**VOCATIONAL DIPLOMA IN INDUSTRIAL
HYGIENE EXAMINATION –
DECEMBER 2020**

INDUSTRIAL HAZARDS

Time : 3 hours

Maximum marks : 75

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. Explain the hazards due to improper housekeeping.
2. Discuss the hazards due to fire in multifloor industries and buildings.
3. Explain the physical and chemical properties of chemical leading to accidents like explosion, ingestion and inhalation and dangers of dusts.
4. Explain the hazards peculiar of the following industries.

Petroleum refinery, petrochemicals and organic chemicals.
5. Discuss the hazards due to exposure to heat radiation, ionizing radiations and non-ionizing radiations.

6. What are the hazards in compressed air generation?
7. Explain the electrical equipments and distribution hazards.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. Explain the control of Hazards in steam boilers and atomic power plants.
 9. Discuss the guidelines and safe methods in chemical handling, storage into confined spaces.
 10. Discuss the hazards in open cost and underground mines due to poisonous gases.
 11. Emergency mock Drill, Emergency evacuation planing, for Heavy Industrial Chemical Engineering company?
 12. Explain the Hazards peculiar to points, dyes, and fabric dyeing industries.
 13. Explain the various types of Hazards and its avoidance.
 14. Discuss the pollution of air and water due to industrial wastes.
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VOCATIONAL DIPLOMA EXAMINATION

DECEMBER 2020

Industrial Hygiene

ERGONOMICS

Time : 3 hours

Maximum marks : 75

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. Briefly explain the effects on health due to cold and heat radiation and laser beams and also to explain their control measures.
2. Explain the health effects by exposing of ammonia, halogenated gases, hydro carbons gases and fumes like NO_x , SO_x , Cl_2 , HCl and H_2S .
3. Describe in detail about the effects on health due by various types Virus and Bacteria available at the working places.

4. Give a brief account on effects on health by mechanical hazards like Fracture, Burns, eye injury, hurt and poisoning.
5. Climatic choose — Diseases precaution steps.
6. Explain the effects of vibration.
7. Improper ventilation—Briefly describe.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. Health effect of organic chemicals and solvents—Describe.
9. Ergonomics, Food habituals—Write shortly.
10. Explain first aid principles and methods.
11. How to avoid mechanical hazards?
12. Describe the notifiable diseases under the factories act.
13. Explain in detail about Alcohol and drugs—abuse
14. Accident Investigation prepare – components, direct loss, indirect loss, Root causes, Injury, property damages— Briefly explain.