

**P.G. Diploma in Industrial Safety Examination**  
**November 2009**  
**Directorate of Correspondence Course**  
**Dept. of Environmental Science**  
**Paper - I Hazards in work places**

Time : 3 Hours

Max. Marks : 85

**Answer all Sections****SECTION-A****Answer any FIVE of the following.****5x5=25**

1. What are the hazards and risks associated with construction industry.
2. Explain house keeping essentials in the work environment.
3. Write a note on biological hazards.
4. Write the hazardous characteristics of chemicals.
5. Differentiate Dangers & Risk.
6. Explain methods of Fire control
7. Write a note on dust hazards.

**SECTION-B****Answer any THREE of the following.****3x10=30**

8. Discuss the safety measures if people exposed to poisonous gases.
9. Write a note on MSDS and explain its importance.
10. Discuss the health effects of noise in industrial environment.
11. What are the safety measures followed to mitigate the hazards in petroleum industries?

**SECTION-C****Answer any TWO of the following.****2x15=30**

12. Give a brief account on hazardous magnitude noticed in moving machineries.
13. Explain the following
  - a. Psychological hazards
  - b. Engineering control measures of hazards
  - c. Vibration hazards.

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**Paper - II- Safety in Process Plants.**

Time : 3 Hours

Max. Marks : 85

**Answer all Sections****SECTION-A****Answer any FIVE of the following.****5x5=25**

1. Write a short note on Head protecting device.
2. Explain the use of Gloves
3. Write the methods of handling of fire extinguishes.
4. What is Damage minimization? Explain the procedures involved in it.
5. What are the safety measures followed during gas leakage.
6. Explain preventive measures gradation hazards.
7. What are the instruments used to monitor gas leakage. Explain.

**SECTION-B****Answer any THREE of the following.****3x10=30**

8. Explain respiratory and non respiratory devices.
9. Write the role of industrial hygienist.
10. Discuss safety measures followed in petroleum refineries.
11. Give a checklist of plant maintenance.

**SECTION-C****Answer any TWO of the following.****2x15=30**

12. Discuss about the engineering methods to prevent pollution and control of hazards.
13. Give a brief account on hazards related to working at elevated places.
14. Discuss in detail the work hazards and safety measures noticed in Iron and steel industries.

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**Directorate of Distance Education  
Dept. of Environmental Science**

**Paper - III- High Pressure Operating Safety Education and  
Training and inspection**

Time : 3 Hours

Max. Marks : 85

**Answer all Sections**

**SECTION-A**

**Answer any FIVE of the following.**

**5x5=25**

1. Explain first aid methods.
2. Explain the use of pressure cylinders
3. Write a note on safety training
4. What are the characteristics of explosives
5. Write the essentials of safety administration
6. Write the advantages of accident reports
7. Write the role of inspectorate of factories

**SECTION-B**

**Answer any THREE of the following.**

**3x10=30**

8. Write the importance of safety education.
9. Give a detail account on plant inspection techniques.
10. Write the storage procedures of hazardous chemicals.
11. List out the important safety rules to prevent high pressure hazards.
12. Explain the following
  - a. Rehabilitation of workers
  - b. Safety precautions.

**SECTION-C**

**Answer any TWO of the following.**

**2x15=30**

13. Describe the principle and methods involved in first AID and list out the treatment process involved for electrical hazards.
14. Explain in brief the safety precautions to be followed to transport flammable chemicals.
15. Describe the methods involved in accident investigation. Add a note on how to prepare reports.

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**Paper - IV- Safety Management and Training**

Time : 3 Hours

Max. Marks : 85

**Answer all Sections**

**SECTION-A**

**Answer any FIVE of the following.**

**5x5=25**

1. Write common industrial injuries.
2. Write a note on industrial accident, explain economic loss due to industrial accidents.
3. Write the role of trade unions related to safety measures.
4. What are the emergency plans necessary to take while accidents occur.
5. Explain the importance of Factories Act.
6. Write a short note on industrial hygiene.
7. Write a note on supervisor role in industries.

**SECTION-B**

**Answer any THREE of the following.**

**3x10=30**

8. Discuss in detail the legal aspects covered in maintaining employees safety.
9. Discuss about the management role in industrial safety.
10. Give a brief account on child labour and women employees Acts.
11. Write the industrial hygiene programme flow chart.
12. Discuss different agencies involved in accident prevention activities.

**SECTION-C**

**Answer any TWO of the following.**

**2x15=30**

13. Write the importance of education and awareness about industrial safety.
14. Write the various parameters involved in preparing safety audit report.
15. Give a brief account on the following.
  - a. OSHA
  - b. Inspectorate of Factories

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