P.G. Diploma in Industrial Safety Examination
August / September 2011
Directorate of Distance Education

PAPER I : HAZARDS IN WORKPLACES

Time: 3 Hours
Max. Marks: 85

Note : Answer ALL the sections

SECTION-A
Answer any FIVE of the following : (5x5=25)
1. Write a note on hazards in ports.
2. Differentiate dust, fume and vapours.
3. Write a note on asbestosis.
4. Give an account on dangers of dust.
5. Write a note on fire hazards in industries.
6. What are the hazards associated with tanneries ?
7. Give an account of hazards due to compressed air.

SECTION-B
Answer any THREE of the following. (3x10=30)
8. Discuss the hazards associated with thermal power plants.
9. Describe the control measures of hazards of Atomic Power Plants.
10. Explain the guidelines of open cast mining.
11. Discuss the hazards in construction industry.
12. Describe the impact of noise and vibration in industries.

SECTION-C
Answer any TWO of the following: (2x15=30)
12. Discuss health hazards associated with atmospheric pollution.
13. Describe the following:
   a. Hazards in manual handling
   b. Mechanical handling hazards in moving machinery
14. Discuss the threshold limit values of chemicals and control measures in an industry.

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PAPER II : SAFETY IN PROCESS PLANTS

Time: 3 Hours

Note: Answer ALL the sections

Max. Marks: 85

SECTION-A

Answer any FIVE of the following: (5x5=25)

1. Write a note on Non respiratory devices.
2. Explain the use of Barrier creams.
3. Write a note on Fire hazards.
4. List out the pollutants in cement industry and explain their impact on health.
5. Write a note on Allergenic dusts.
6. Define Asbestosis.
7. Explain Fibrosis.

SECTION-B

Answer any THREE of the following. (3x10=30)

8. Write a note on water type fire extinguishers.
10. Write a note on assessment methods of industrial emissions.
11. Explain the importance of illumination & ventilation at work place.

SECTION-C

Answer any TWO of the following: (2x15=30)

12. Discuss the methods of hazard identification and survey
13. Explain devices used in hazardous exposure.
14. Write briefly the preventive measures of gas leakage in sulphuric acid plants.

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Dept. of Environmental Science  

PAPER III : HIGH PRESSURE OPERATING, SAFETY EDUCATION AND TRAINING AND INSPECTION  

Time: 3 Hours  
Max. Marks: 85  

Note : Answer ALL the Sections  

SECTION-A  

Answer any FIVE of the following:  

1. What is liquefaction of air?  
2. What are the specification of Man-hole?  
3. Give the salient features of Hazardous material.  
4. What is rehabilitation? Why this is necessary?  
5. What is first aid? List-out the rules of first aid.  
6. Explain a pressure vessel.  
7. With a brief explanation, list out the fire safety equipments being used in chemical factories.  

(5x5=25)  

SECTION-B  

Answer any THREE of the following.  

8. Describe the properties of flammable liquids.  
9. Describe the safety storage precautions for Nitrates and Nitrites.  
10. What is the need of safety education in factories?  
11. What is an accident? Describe the circumstances in which accident could take place.  
12. Explain the following:  
   a. Safety training in industries.  
   b. Steps in accident investigations.  

(3x10=30)  

SECTION-C  

Answer any TWO of the following:  

13. Describe the storage methods for liquids and particulate matters under high pressure.  
14. With suitable examples, describe each objectives of Plant Inspection.  
15. What are the safety rules for storage and handling of hazardous chemicals? Discuss their relevance.  

(2x15=30)  

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PAPER IV : SAFETY MANAGEMENT & TRAINING

Time: 3 Hours

Instructions : Answer ALL Sections

Max. Marks: 85

SECTION-A

Answer any FIVE of the following:

1. Write a note on Safety Emergency.
3. Write a note on Safety measures in Factories Act.
4. Write a note on Safety Appraisal.
5. Write the importance of OSHA.
6. Explain the role of supervisors in Industries.
7. Write the role of Trade Union in Industrial Safety Management.

(5x5=25)

SECTION-B

Answer any THREE of the following.

8. Discuss briefly types of accidents & injuries in the industrial jobs.
9. Briefly discuss the fundamentals, principles of safety.
10. Write briefly on Safety day.
11. What are the legal aspects of Industrial Safety. Explain.
12. Discuss different agencies involved in accident prevention.

(3x10=30)

SECTION-C

Answer any TWO of the following:

13. Discuss the methods of Safety education and motivating the employees in protecting industrial Hazards.
14. Write briefly about the safety auditing and assessment.
15. Write short note on:
   a. Mines Act
   b. ILO