

Register Number :

Name of the Candidate :

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DIPLOMA EXAMINATION, 2010

(HEALTH, SAFETY AND ENVIRONMENT)

(PAPER - I)

110. INDUSTRIAL SAFETY

December]

[Time : 3 Hours

Maximum : 100 Marks

PART - A (3 ×20= 60)

Answer any THREE questions.

All questions carry equal marks.

1. What are the basic principles in industrial safety for accident prevention ?
2. In an industry handling large quantities of hazardous, flammable materials, outline details of procedures for carrying out typical maintenance jobs.
- 3, What is permit to work system ? Chalk-out a sample work permit format for 'welding work.'

Turn Over

4. Enumerate the procedures for organising inspection and maintenance works inside a high pressure reaction vessel. Explain what is a confined space.
5. What are the fundamental principles recommended for fire prevention and control measures? How and why 'fires' normally take place?

PART - B (4 × 10 = 40)

*Answer any FOUR questions.
All questions carry equal marks.*

6. Write about :
 - (a) "Emergency respiratory resuscitation."
 - (b) Self contained breathing apparatus.
7. Explain what is 'safe work environment'?
8. Explain safety aspects of
 - (a) Acetylene.
 - (b) Chlorine
 and (c) Hydrogen gas cylinders.

9. Explain human errors and control to maintain industrial safety.
10. What is 'toxicity' of a chemical and their adverse health effects?
11. Explain 'HAZOP' study and its usefulness.
12. Write short notes on :
 - (a) Maximum allowable concentration.
 - (b) Work in 'heights.'