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**Question Paper Code: 92011**

M.E. DEGREE EXAMINATION, APRIL 2015.

Elective

CAD / CAM

01PCD507 – INDUSTRIAL SAFETY MANAGEMENT

(Regulation 2013)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions.

PART A - (10 x 2 = 20 Marks)

1. List the various members in safety committee.
2. Write down the role of safety in productivity of an industry.
3. What is meant by operational safety?
4. What are the safety precautions to be taken in gas furnace operation?
5. List any four toxic gases coming from a chemical industry.
6. What are the methods used in risk assessment?
7. List some of the fire fighting devices.
8. Mention the causes of fire accident.
9. List some of the safety standards.
10. Define IPR and Non IPR.

PART - B (5 x 14 = 70 Marks)

11. (a) (i) Explain safety audit procedure in detail. (7)  
(ii) Discuss the various functions of safety management in an industry. (7)

Or

- (b) (i) Describe the participation of employee in safety management. (7)  
(ii) Explain the nature of safety management and safety department. (7)
12. (a) Explain in detail about operational safety in pressure vessel while performing hot metal operations. (14)

Or

- (b) Explain the safety procedure to be adhered for (i) cold metal operation (ii) metal cutting and (iii) power press. (14)
13. (a) (i) Explain the process of managing toxic gases and chemicals. (7)  
(ii) Write short notes on safety in engineering industry. (7)

Or

- (b) Describe the on-site and off-site control of hazards. (14)
14. (a) (i) What do you mean by HAZOP? Explain the methodology to be followed for conducting the HAZOP study? (7)  
(ii) Describe any two personal protective equipments mainly used in hot working conditions. (7)

Or

- (b) Discuss in detail about accident prevention training and development programmes. (14)
15. (a) (i) Discuss the procedures to be followed to prevent the occupational diseases. (7)  
(ii) Describe the various health standards related to the industrial environment. (7)

Or

- (b) Discuss various acts related to safety in detail. (14)

PART - C (1 x 10 = 10 Marks)

16. (a) Explain various types of safety related symbols used in an industry. (10)

Or

- (b) Explain design for safety with suitable example in detail. (10)