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Total Number of Pages: 1

M.TECH
CMPE107

1st Semester Regular/Back Examination – 2014
INDUSTRIAL SAFETY MANAGEMENT
BRANCH(S): CAD / CAM ENGINEERING

Time: 3 Hours

Max Marks: 70

Answer Question No.1 which is compulsory and any five from the rest.
The figures in the right hand margin indicate marks.



- Q1** Answer the following questions: (2 x 10)
- a) What is duty of safety officer?
 - b) Why safety committee is necessary in industry?
 - c) Discuss the safety measures in shot blasting?
 - d) Discuss the fire fighting devices
 - e) Relate industrial hygiene with industry safety
 - f) What is on-site and off-site safety measure?
 - g) Discuss Indian boiler act.
 - h) Write down four major safety precautions while chamfering of pipes
 - i) Note down different environmental pollutions
 - j) What are the modern safety concepts?
- Q2** a) Explain the meaning of NSC. State the role and function of National safety council in promoting safety and health in industry. (5)
- b) Explain fire triangle and types of fire. Explain how to extinguish different types of fire. (5)
- Q3** Explain with examples how industrial workers can be motivated by the management. Also explain with example how management can be motivated. (10)
- Q4** a) What are the safety measures in Machine shop and Welding shop (5)
- b) What do you mean by occupational health hazard? How it affects industrial safety (5)
- Q5** a) Explain clearly with example how the emergencies are managed in industry. (5)
- b) Define pollution. What are the types of pollution? Explain the role of Environment Protection Act in detail (5)
- Q6** a) What are the different methods for hazard identification? Define HAZOP and describe the end result of such a study (5)
- b) Explain safe working environment and workmen compensation act in industries (5)
- Q7** a) What is the difference between hazard and risk? Give examples. (5)
- b) Discuss the safety factors to be considered while designing plant layout. (5)
- Q8** Write Short Notes (Any Two) (5 x 2)
- a) Safety audit in industrial safety
 - b) Operational Safety
 - c) Role of Government and management in Industrial safety
 - d) Training of Employees for safety