

F 3309

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Reg. No.....

Name.....



**B.TECH. DEGREE EXAMINATION, NOVEMBER 2014**

**Eighth Semester**

Branch : Mechanical Engineering/Production Engineering

ME 010 805 G01 / PE 010 805 G01—INDUSTRIAL SAFETY (Elective IV) (ME, PE)

(New Scheme—2010 Admission—Supplementary)

Time : Three Hours

Maximum : 100 Marks

**Part A**

*Answer all questions.*

*Each question carries 3 marks.*

1. Explain the need and functions of Safety Committees.
2. Write a short note on Cost of accidents.
3. What is safety audit ? Give its importance.
4. What are different types of industrial hazards ?
5. Explain about fire prevention activities.

(5 × 3 = 15 marks)

**Part B**

*Answer all questions.*

*Each question carries 5 marks.*

6. Write a note on safety policy. How are safety and productivity related ?
7. How can types of accidents be categorized according to the causes of events in industry ?
8. Discuss the importance of plant safety inspection.
9. List and explain the hazards that are possible due to improper house-keeping in industries.
10. What are the preventive measures of fire hazards ?

(5 × 5 = 25 marks)

**Part C**

*Answer all questions.*

*Each question carries 12 marks.*

11. Define safety committee. Also explain the advantages and types of safety committee.

*Or*

12. What is the importance of safety education and training ? What are the various training methods ?

**Turn over**

13. Discuss the nature and causes of accidents in industries. Discuss how accidents are reported, investigated and analyzed in an industry. How does it help in prevention of future accidents in that industry ?

*Or*

14. What is the importance of safety education and training ? What are the various training methods ?
15. Describe : (i) Safety sampling technique (ii) Safety Survey (iii) Safety audit.

*Or*

16. Describe the role of management, supervisors, workmen, unions, and government in safety.
17. Explain the various types of industrial hazards ? How are check lists useful in identifying industrial hazards.

*Or*

18. Discuss the functional units and activities of occupational health and hygiene in industries.
19. Explain the fire prevention activities and personal fire protective equipments and their need.

*Or*

20. Describe the contributing factors towards industrial fires. What are fire detection methods ?

(5 × 12 = 60 marks)

