

Eighth Semester B.Tech. Degree Examination, April 2017

(2013 Scheme)

13.805.15: INDUSTRIAL SAFETY ENGINEERING (MPU)

Time : 3 Hours Max.

Marks: 100

PART – A

Answer all questions. Each question carries 2 marks: (10x2=20 Marks)

1. Briefly describe the role of safety officers in an industry
2. What are the basic functions of safety committee?
3. What do you mean by safety in hot work industries ?
4. Mention the application of safety harness kit.
5. Briefly explain the working of a fire fighting equipment
6. What is 'MSDS'? Discuss its importance in chemical industry
7. What are the harmful effects of industrial pollution?
8. Enumerate the objectives of ESI Act
9. Prepare a brief note on Industrial hygiene
10. Explain how proper work place design increases the productivity of the worker

PART – B (20x4= 80Marks)

Answer Any Four Questions (20 Marks Each)

Module-I

11. a). Discuss about the role of safety committees in reducing loss time accidents in an industry 10
(b). Enumerate on history and development of industrial safety 10
- OR
12. a). Explain the importance of Factories act in an industry 10
(b). Enumerate the role of management and role of government in industrial safety 10

Module-II

13. a). Discuss about the safety measures to be considered in operating with boilers 10
- b). Explain about the operational safety to be followed in hot work operations 10
- OR
14. a). Explain about the safety aspects to be considered in handling power tools 10
- b). Explain the important safety procedure to be followed in a machining shop 10

MODULE-III

15. a). Explain about the importance of housekeeping in reducing accidents in industry 10
- b). Enumerate the importance of Personal Protective Equipments 10
- OR
16. a). What are the important safety aspects to be followed in working at height 10
- b). Discuss about the importance of education and training in safety 10

MODULE-IV

17. a). Explain the importance of industrial hygiene in occupational safety 10
- b). Enumerate the importance of industrial noise control and what are the methods for controlling industrial noise 10

OR

18. a). Explain about the importance of ergonomics in workplace design 10
- b). Discuss about the engineering methods in controlling chemical hazards 10

(4x20=80 Marks)
