

G 1774

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Reg. No.....

Name.....

**B.TECH. DEGREE EXAMINATION, MAY 2016**

**Eighth Semester**

Branch : Mechanical Engineering/Production Engineering

ME 010 805 G01 }  
PE 010 805 G01 } INDUSTRIAL SAFETY (Elective IV) [ME, PE]

Time : Three Hours

Maximum : 100 Marks

**Part A**

*Answer all questions.  
Each question carries 3 marks.*

1. Write most relevant *five* sentences about OSHA Act.
2. What are the major causes of accidents ?
3. Differentiate between the two types of safety inspection.
4. What is meant by ventricular fibrillation ?
5. Differentiate between the various types of fires.

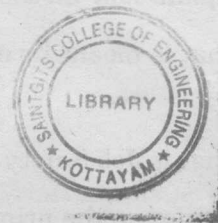
(5 × 3 = 15 marks)

**Part B**

*Answer all questions.  
Each question carries 5 marks.*

6. List down the ten axioms of safety philosophy.
7. Present arguments to claim that "accident proneness" is a misleading expression.
8. What is meant by "incident recall technique" ? Where and how it is used ?
9. Explain the conditions necessary for dust explosion.
10. What are the factors affecting ignition temperature of a fuel ?

(5 × 5 = 25 marks)



**Turn over**

**Part C**

*Answer all questions.  
Each question carries 12 marks.*

11. Explain the various steps involved in developing an effective safety plan in an industrial organization.

*Or*

12. Discuss on the necessary personal characteristics of a safety director in an organization.  
13. Discuss on the indirect (uninsured) costs of accidents.

*Or*

14. Explain four methods of accident prevention.  
15. What is meant by environmental audits ? What are the types and what are the users ?

*Or*

16. What is Job Safety analysis ? Explain the various steps involved in doing it.  
17. Discuss on the principles of manual material handling to avoid possible injuries.

*Or*

18. Discuss on the mechanical, physical, chemical and biological causes of occupational dermatitis.  
19. Discuss on the fire risk of metals.

*Or*

20. Discuss on dry chemical fire extinguishing agents with their advantages and disadvantages.

(5 × 12 = 60 marks)

