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Question Paper Code	12302
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M.E. / M.Tech - DEGREE EXAMINATIONS, NOV / DEC 2023

First Semester

M.E. - Industrial Safety Engineering

20PISPC101 - PRINCIPLES OF SAFETY MANAGEMENT

(Regulations 2020)

Duration: 3 Hours

Max. Marks: 100

PART - A (10 × 2 = 20 Marks)

Answer ALL Questions

- | | <i>Marks,
K-Level, CO</i> |
|--|-------------------------------|
| 1. Define the principles of Organizational Safety. | 2,K1,CO1 |
| 2. Compare the terms hazard and risk. | 2,K2,CO1 |
| 3. When do we use safety audit? | 2,K1,CO2 |
| 4. Define Auditing. | 2,K1,CO2 |
| 5. Why documentation needed for an accident analysis? | 2,K2,CO3 |
| 6. What is the purpose of accident analysis? | 2,K2,CO3 |
| 7. What is safety activity rate? | 2,K2,CO4 |
| 8. What is the role of safety committee? | 2,K2,CO4 |
| 9. Write the role of government agencies in safety training. | 2,K2,CO5 |
| 10. What are the needs for safety training? | 2,K1,CO5 |

PART - B (5 × 13 = 65 Marks)

Answer ALL Questions

11. a) What are the various steps involved in man-made disaster control? 13,K2,CO1
- OR**
- b) Explain in detail about safety procedures to be followed while operating wood working machinery. 13,K2,CO1
12. a) Explain in detail how do you conduct the safety audit in a hazardous industry. 13,K3,CO2
- OR**
- b) Explain in detail the methodology for conducting safety audit. 13,K2,CO2
13. a) Explain the duties and responsibilities of safety supervisor. 13,K2,CO3
- OR**
- b) Explain in detail, the role of supervisor in accident prevention. 13,K2,CO3

14. a) What is safety 't' score? Explain its significance. *13,K2,CO4*

OR

b) Explain in detail about safety training conducted in the industry for implementing safety activities. *13,K3,CO4*

15. a) Explain the various methods of promoting safety practice in an industry. *13,K3,CO5*

OR

b) Explain the role of National Safety Council in safety education and training. *13,K2,CO5*

PART - C (1 × 15 = 15 Marks)

16. a) Explain the steps involved in calculating safety activity rate with a real industry example. *15,K4,CO6*

OR

b) Prepare an accident investigation report and explain how it can be used for accident prevention. *15,K4,CO6*