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Question Paper Code	12334
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**M.E. / M.Tech - DEGREE EXAMINATIONS, NOV / DEC 2023**

First Semester

**M.E. – Industrial Safety Engineering**

**20PISPC104 – INDUSTRIAL SAFETY, HEALTH AND ENVIRONMENT ACTS**

(Regulations 2020)

Duration: 3 Hours

Max. Marks: 100

**PART - A (10 × 2 = 20 Marks)**

Answer ALL Questions

- |  | <i>Marks,<br/>K-Level, CO</i> |
|--|-------------------------------|
| 1. What are the main objectives of the factories act 1948?                     | 2,K1,CO1                      |
| 2. Define the term 'worker' used in factories act.                             | 2,K1,CO1                      |
| 3. Who is a Government analyst?  | 2,K2,CO2                      |
| 4. List out the sources of Noise pollution.                                    | 2,K2,CO2                      |
| 5. What are the details have to provide for the import of hazardous chemicals? | 2,K1,CO3                      |
| 6. Give a short note on toxic chemicals.                                       | 2,K1,CO3                      |
| 7. What is mean by pressure vessel?  | 2,K1,CO4                      |
| 8. What is mean by Explosives?   | 2,K1,CO4                      |
| 9. List out the types of hazards in the workplace.                             | 2,K1,CO5                      |
| 10. List out the objectives of OHSAS?  | 2,K1,CO5                      |

**PART - B (5 × 13 = 65 Marks)**

Answer ALL Questions

- |   |           |
|---|-----------|
| 11. a) Briefly enumerate the provisions of the factories act 1948, relating to the health of the workers. | 13,K2,CO1 |
| <b>OR</b>   |           |
| b) Explain in detail regarding the provisions relating to hazardous processes.                            | 13,K2,CO1 |
| 12. a) Explain in detail about indoor and our door sources of noise pollution.                            | 13,K2,CO2 |
| <b>OR</b>   |           |
| b) Explain in detail about the causes, effects, and control measures of air pollution.                    | 13,K2,CO2 |
| 13. a) What are the types of solid storage tanks? Explain.  | 13,K2,CO3 |

**OR**

b) Can you explain the safety features for isolated storage and handling of chemicals? *13,K2,CO3*

14. a) What is the liability of the principal employer in respect of injury sustained by a workman employed through a contractor? *13,K2,CO4*

**OR**

b) How would you show your understanding of building and other construction workers welfare Boards? *13,K2,CO4*

15. a) Discuss the worker, environmental and nuclear safety laws. *13,K2,CO5*

**OR**

b) Explain in detail about the overview of ISO14000 standards. *13,K2,CO5*

**PART - C (1 × 15 = 15 Marks)**

16. a) A worker aged 25 years has been allowed leave for 4days. Another worker, aged 14 years, has been allowed leave for days. Both the workers intend to get the wage before their leave begins. Advise the employer. *15,K3,CO1*

**OR**

b) Chemical Hygiene plan helps to prevent the accidents. – Explain. *15,K3,CO3*