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Question Paper Code	12804
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M.E. / M.Tech. - DEGREE EXAMINATIONS, APRIL / MAY 2024

First Semester

**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

	Marks	K- Level	CO
1. Whether any establishment is a factory?	2	K1	CO1
2. List out the duties of welfare officer.	2	K2	CO1
3. What is environment pollutant?	2	K2	CO2
4. Classify the types of Noise.	2	K2	CO2
5. What is meant by Hazardous chemicals?	2	K1	CO3
6. What is meant by flammable chemicals?	2	K1	CO3
7. What is meant by pressure vessel?	2	K1	CO4
8. List out the objectives of Motor vehicle Act.	2	K2	CO4
9. Why this OSHA is essential?	2	K1	CO5
10. What are the main points of HASAWA 1974?	2	K1	CO5

**PART - B (5 × 13 = 65 Marks)**

Answer ALL Questions

11. a) Explain in detail about the duties of powers of inspectors as per factories act 1948. 13 K2 CO1
- OR**
- b) Briefly summarize the different provisions of the factories act 1948, for the welfare of workers in a factory. 13 K2 CO1
12. a) Explain in detail about indoor and our door sources of noise pollution. 13 K2 CO2
- OR**
- b) Describe the main functions of Central & State Pollution Control Boards. 13 K2 CO2
13. a) Elaborately explain the various stages of safety management plan for various chemical storages. 13 K2 CO3

**OR**

b) Give a detailed account on safety reports. 13 K2 CO3

14. a) Explain in detail about SMPV Rules 1981. 13 K2 CO4

**OR**

b) Discuss the process of treatment, storage and disposal facility for hazardous and other wastes. 13 K2 CO4

15. a) Describe the brief history and standardization process of ISO. 13 K2 CO5

**OR**

b) Explain in detail about Health and safety regulations of HASAWA 1974. 13 K2 CO5

**PART - C (1× 15 = 15 Marks)**

16. a) Describe the main functions of Central & State Pollution Control Boards. 15 K3 CO3

**OR**

b) Whether the Boilers act 1923 is suitable for modern boilers – discuss in detail and explain how it has to be changed according to the recent developments. 15 K3 CO4