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Question Paper Code	12766
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M.E./M.Tech - DEGREE EXAMINATIONS, APRIL / MAY 2024

First Semester

M.E - Industrial Safety Engineering

20PISPC103 – OCCUPATIONAL HEALTH AND INDUSTRIAL HYGIENE

Regulations - 2020

Duration: 3 Hours

Max. Marks: 100

PART - A (10 × 2 = 20 Marks)

Answer ALL Questions

	Marks	K- Level	CO
1. When an employer has to provide hearing protectors?	2	K1	CO1
2. Discuss radiation sources in humans.	2	K1	CO1
3. List out some common techniques to analyze gaseous pollutants.	2	K2	CO2
4. Write about the methods and control techniques of air pollution.	2	K2	CO2
5. List some common infectious diseases among workers.	2	K1	CO3
6. Classify biological safety cabinets.	2	K1	CO3
7. When will you conduct audiometric test?	2	K1	CO4
8. What are the main factors considered in employment medical examinations?	2	K2	CO4
9. Does physiology affects productivity? Explain.	2	K2	CO5
10. How to improve work efficiency?	2	K2	CO5

PART - B (5 × 13 = 65 Marks)

Answer ALL Questions

11. a) Explain mechanisms involved in noise control system.	13	K2	CO1
OR			
b) Elaborate health concerns of people working in cold environment.	13	K2	CO1
12. a) Select ambient air sampling techniques and discuss in detail.	13	K3	CO2
OR			
b) Explain in detail about toxic gases that cause air pollution.	13	K3	CO2
13. a) Discuss in detail classification of biohazards.	13	K3	CO3
OR			
b) Discuss causes and prevention of neck and back pain.	13	K3	CO3

14. a) Write in detail about post employment medical examination. 13 K3 CO4

OR

b) What are the various eye test and vital functional test conducted in workers? 13 K3 CO4

15. a) Elaborate the duties of an employer in maintaining occupational safety. 13 K3 CO5

OR

b) Discuss about the limitation of human over machine. 13 K3 CO5

PART - C (1× 15 = 15 Marks)

16. a) List some common prevention for various occupational diseases. 15 K3 CO3

OR

b) Give your suggestions for improving employment medical examinations. 15 K3 CO4