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Question Paper Code 12319

## M.E. / M.Tech - DEGREE EXAMINATIONS, NOV / DEC 2023

First Semester

## M.E. - Industrial Safety Engineering 20PISPC103 - OCCUPATIONAL HEALTH AND INDUSTRIAL HYGIENE

(Regulations 2020)

Duration: 3 Hours Max. Marks: 100

## $PART - A (10 \times 2 = 20 Marks)$

Answer ALL Questions

		Marks, K-Level, CO 2,K1,CO1					
1.	List the ill effects in human due to overexposure of noise.						
2.	What are the types of ionizing radiation?						
3.	Write commonly used sound absorption materials.						
4.	Interpret the control techniques used in Air Pollution.						
5.	What are the methods for controlling bio-hazardous agents in workers?						
6.	Mention the symptoms of CTS.						
7.	Define occupational health service.						
8.	Compare pre-employment and post-employment medical examination.						
9.	Outline Multitasking.	2,K2,CO5					
10.	Summarize Work efficiency.						
11.	PART - B (5 × 13 = 65 Marks)  Answer ALL Questions  a) Explain in detail about the noise control strategies.	13,K2,CO1					
	OR	12 112 001					
	b) Discuss the monitoring instrument of ionizing radiation.	13,K2,CO1					
12.	a) Select ambient air sampling techniques and discuss in detail.  OR	13,K3,CO2					
	b) Construct the electrostatic precipitator working principle.	13,K3,CO2					
13.	a) Identify various classification of biological agent.  OR	13,K3,CO3					
	b) Identify the preventive measures to be adopted for skeletal disorders.	13,K3,CO3					

Examine the symptoms, causes and preventive measures of silicosis. 14. 13,K3,CO4 OR Analyze the effects of carcinogen entry into humans. b) 13,K3,CO4 15. Discover man as a system component. 13,K3,CO5 a) OR Analyze how shift work physiologically influence workers? 13,K3,CO5 b) PART - C  $(1 \times 15 = 15 \text{ Marks})$ Identify the climatic changes due to air pollutants. 16. 15,K3,CO2 Choose physiological requirements for a job. b) 15,K3,CO5