

**PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)**

**PGDIS DEGREE EXAMINATION MAY 2024
(Second Semester)**

Branch - PG DIPLOMA IN INDUSTRIAL SAFETY

MAJOR ELECTIVE COURSE -II : INDUSTRIAL HYGIENE AND OCCUPATIONAL HEALTH

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (10 × 1 = 10)

Module No.	Question No.	Question	K Level	CO
1	1	Reactivity, flammability, health are _____ of chemicals. a) Hazard categories b) Chemical properties c) Physical properties d) Nature of chemicals	K1	CO1
	2	A chemical's safe concentration in workplace air where most workers can be exposed without harmful effects is known as: a) Occupational exposure b) Route of exposure c) Threshold limit value d) Both b and c.	K2	CO1
2	3	Which of the following colour code is used for radiation hazard? a) Yellow b) Purple c) Orange d) Red	K1	CO2
	4	The intensity needed to produce an audible sound varies with _____ a) Frequency b) Noise c) Tone d) Amplitude	K2	CO2
3	5	What two factors determine risk when dealing with a chemical hazard in the workplace? a) The volatility of chemicals and age of worker b) Reactivity of chemical and equipment speed c) Toxicity of chemical and duration of exposure d) Reactivity nature and intensity of exposure	K1	CO3
	6	The following control measure is recommended for ensuring industrial hygiene is _____ a) Elimination b) Substitution c) Engineering control d) All the above	K2	CO3
4	7	Which type of filter is commonly used in Biosafety cabinet to capture and remove airborne particles? a) Carbon filter b) Electrostatic filter c) Glass fibre filter d) HEPA filter	K1	CO4
	8	Carpal tunnel syndrome is caused by the compression of _____ a) The median nerve b) The radial nerve c) The ulnar nerve d) The femoral nerve	K2	CO4
5	9	Which of the following is not an occupational disease? a) Pneumoconiosis b) Botulism c) Silicosis d) Asbestosis	K1	CO5
	10	Cardiopulmonary Resuscitation is _____ a) An emergency lifesaving procedure performed when a person's heart stops beating b) An administrative procedure used to record medical procedures on a person c) Used to assess a patient's medical condition d) A way of bringing person's blood pressure down	K2	CO5

Cont...

SECTION - B (35 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 × 7 = 35)

Module No.	Q. No.	Question	K Level	CO
1	11.a.	Classify the health hazards with example.	K2	CO1
	(OR)			
	11.b.	Summarize the biochemical action of toxic substance.		
2	12.a.	Identify suitable control measures for radiation exposure.	K3	CO2
	(OR)			
	12.b.	Write about the process of organizing the noise survey.		
3	13.a.	What is the process for planning a personal exposure monitoring to assess the chemical hazard in the workplace?	K3	CO2
	(OR)			
	13.b.	How we can make use of substitution and process change help us to achieve industrial hygiene?		
4	14.a.	Examine the ergonomic hazards and its impact on productivity.	K4	CO3
	(OR)			
	14.b.	Evaluate the role of biological safety cabinet in biohazard control.		
5	15.a.	Compare pre-employment and post-employment medical examinations.	K4	CO5
	(OR)			
	15.b.	Analyze the significance of vital function tests.		

SECTION - C (30 Marks)

Answer ANY THREE questions

ALL questions carry EQUAL Marks (3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	Analyze the type and degrees of toxic effects.	K4	CO1
2	17	Compare the ionizing and non-ionizing radiation.	K4	CO2
3	18	Examine the evaluation and control of chemical hazards.	K4	CO3
4	19	Inspect the work related musculoskeletal disorders.	K4	CO4
5	20	Investigate the causes and impact of occupational related pneumoconiosis.	K4	CO5

Z-Z-Z END