

Total No. of Questions: 6

Total No. of Printed Pages:3

Enrollment No.....



Faculty of Engineering
End Sem (Odd) Examination Dec-2022
FT3CO15 Occupational Health & Hygiene System
Programme: B.Tech. Branch/Specialisation: FT

Duration: 3 Hrs.

Maximum Marks: 60

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d.

- Q.1 i. Noise is- 1
(a) An unwanted sound (b) An irritant
(c) A source of stress (d) All of these
- ii. Sound is measured in- 1
(a) Hertz (b) Decibel (c) Ppm (d) None of these
- iii. What is meant by communicable disease? 1
(a) A genetic condition that is passed through the family
(b) A patient contracts a condition from a health care provider
(c) A disease that is contagious and which can be transmitted from one source to another
(d) A patient communicates a condition to his doctor or other health career
- iv. Probability of the event that might occur X Severity of the event if it occurs = 1
(a) Accident (b) Hazard (c) Risk (d) All of these
- v. The following is(are) physical hazard agent(s)- 1
(a) Falls (b) Electricity (c) Inhalation (d) All of these
- vi. Which of the following colour is used for radiation hazard? 1
(a) Red (b) Orange (c) Green (d) Purple
- vii. What are the steps involved in evaluation of toxicity? 1
(a) Hazard identification and dose-response evaluation
(b) Chemical analysis
(c) Pathway analysis
(d) Evaluation of long-term impact

P.T.O.

[2]

- viii. LD50 in a toxicity test stands for _____. **1**
 (a) A dose that will kill 50% of an exposed population
 (b) A dose that would not affect or harm 50% of an exposed population
 (c) A dose that will kill 25% of an exposed population
 (d) A dose that would not kill 25% of an exposed population
- ix. The main cause of contagious disease is- **1**
 (a) Contaminated Air (b) Contaminated Food
 (c) Poor hygienic conditions (d) All of these
- x. Which medical condition will develop from severe blood loss? **1**
 (a) Shock (b) Hypoglycemia
 (c) Anaphylaxis (d) Hypothermia
- Q.2 i. What is illumination & lighting. **2**
 ii. What is the importance of occupational health and hygiene? **3**
 iii. How can we control chemical hazards in Pharma Industries? **5**
- OR iv. Mention the sources, effects and controlling methods of vibration. **5**
- Q.3 i. What is toxicity? **2**
 ii. Discuss the following notifiable diseases- **8**
 (a) Pneumoconiosis (b) Aluminosis
 (c) Silicosis (d) Asbestosis
- OR iii. How does UV & IR radiation weaken the immune system and what are their effects? **8**
- Q.4 i. What do you mean by industrial toxicology? **3**
 ii. Explain all personal protective equipment's using during the time of IDLH condition. **7**
- OR iii. How does carcinogens effect the human body and what are the condition in which these poisonous chemicals enter in the body? **7**
- Q.5 i. What are the four types of industrial hygiene hazards with example? **4**
 ii. How do you ensure industrial hygiene? **6**
- OR iii. How does poor environment affect mental health of an employee or worker? **6**

[3]

- Q.6 Attempt any two:
- i. What can exposure to hazardous materials can cause, provide five examples? **5**
- ii. What are the objectives and contents of medical surveillance? **5**
- iii. What are the legal requirements of first aid boxes in factory? **5**

Marking Scheme
FT3CO15 Occupational Health & Hygiene System

Q.1	i)	all of the above	1
	ii)	Decibel	1
	iii)	A disease that is contagious and which can be transmitted from one source to another	1
	iv)	Risk	1
	v)	all of the above	1
	vi)	purple	1
	vii)	hazard identification and dose-response evaluation	1
	viii)	a dose that will kill 50% of an exposed population	1
	ix)	All of the above	1
	x)	Shock.	1
Q.2	i.	Illumination – 1 mark Lighting – 1 mark	2
	ii.	3 key points	3
	iii.	5 major control chemical hazards in Pharma Industries	5
OR	iv.	control of chemical hazards in detail	5
Q.3	i.	Define toxicity	2
	ii.	4 Notifiable diseases each carries 2 marks	8
OR	iii.	Effects UV 4 marks Effects IR 4 marks	8
Q.4	i.	3 major points on Industrial Toxicology	3
	ii.	4 personal protective equipment's	7
OR	iii.	carcinogens effect the human body - 4 marks poisonous chemicals enter in the body – 3 marks	7
Q.5	i.	4 types of industrial hygiene hazard each 1 mark	4
	ii.	In brief about industrial hygiene	6
OR	iii.	All conditions poor environment affects mental health	6
Q.6			

	i.	exposure to hazardous materials each 1 marks	5
	ii.	objectives of medical surveillance - 3 marks contents of medical surveillance - 2 mark	5
	iii.	legal requirements of first aid boxes in factory in brief	5
