Total No. of Questions: 6 Total No. of Printed Pages:2

Enrollment No.....



Faculty of Engineering

End Sem (Odd) Examination Dec-2019

FT3CO15 Occupational Health & Hygiene System

Rnowledge is Power Programme: B.Tech. Branch/Specialisation: FT

Duration: 3 Hrs. Maximum Marks: 60

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

.1 (M	ICQs) s	should be written in full instead	of only a, b, c or d.		
Q.1	i.	Heat energy received by the earth from the sun is due to			
		(a) Convection (1	b) Radiation		
		(c) Reflection of light (c)	d) Intensity		
	ii.	The process of heat transfer in	which heat is transferred with actual	1	
		migration of medium particles	is known as		
		(a) Conduction (1	b) Convection		
		(c) Reflection (d	d) Radiation		
	iii.	Which of the following is most	repaid process?	1	
		(a) Conduction (1	b) Convection		
		(c) Radiation (d	d) None of these		
	iv.	Design and study of work e	environment to address physical and	1	
		psychological demands of indiv	viduals is classified as		
		(a) Ergonomics (1	b) Cumulative trauma disorders		
		(c) Tag out regulations (d	d) Tag in regulations		
	v.	Disorder which occurs in en	nployees when individuals use same	1	
		muscle repetitively to perform tasks is classified as			
		(a) Tag out relations (1	b) Tag in relations		
		(c) Ergonomics (c	d) Cumulative trauma disorders		
	vi.	Workplace related injuries, illn	ess and deaths impose costs upon	1	
		(a) Employers (1	b) Employees		
		(c) The Community (d	d) All of these		
	vii.	Phosphine liberated in the	stomach in aluminium phosphide	1	
		poisoning is toxic to all except			
		(a) Lungs (b) Kidneys (c	c) Liver (d) Heart		
	viii.	Magnan's symptoms are ch	naracteristic symptoms with which	1	
		poisoning			
		(a) Alcohol (b) Charas (d	c) Cocaine (d) Ecstasy		

P.T.O.

[2]

	ix.	Eco-toxicology is the study of	1
		(a) Chemical interactions of organism and environment.	
		(b) Physical interactions of organism and environment.	
		(c) Thermal interactions of organism and environment.	
		(d) Biological interactions of organism and environment.	
	х.	Which part of the NFPA marking system implies flammability?	1
		(a) White (b) Blue	
		(c) Yellow (d) Red	
Q.2	i.	Write the characteristics of noise.	2
	ii.	Mention the non-auditory effects of noise.	3 5
	iii.	Explain the purpose and benefits of good lighting.	5
OR	iv.	Explain the difference between industrial hygiene and occupational health.	5
Q.3	i.	Enlist the various types of notifiable diseases.	2
	ii.	Explain the term sampling with its types and methods of analysis of sampling.	
OR	iii.	Describe the noise survey and noise conservation programme.	8
OIL	1111	Describe the noise survey and noise conservation programme.	Ŭ
Q.4	i.	Explain the routes of chemical entry.	3
	ii.	Explain the types of exposure and statistical analysis of data for dose	
		and response.	
OR	iii.	What are the personal protective equipments to be consider for	7
		chemical emergency?	
Q.5	i.	What are the aims or general principles of first aid?	4
Q.5	ii.	Explain the first aid treatment for poisoning with acids and alkalis.	6
OR	iii.	Explain the first aid treatment when poison is not known.	6
OK	111.	Explain the first aid deathent when poison is not known.	U
Q.6		Attempt any two:	
-	i.	Write the benefits of good housekeeping.	5
	ii.	Explain the Japanese concept of 'FIVE S'.	5
	iii.	Write the application of ergonomics for safety & health.	5

Marking Scheme

FT3CO15 Occupational Health & Hygiene System

Q.1	i.	Heat energy received by the earth from the sun is due to	1
	ii.	(b) Radiation The process of heat transfer in which heat is transferred with actua migration of medium particles is known as (b) Convection	l 1
	iii.	Which of the following is most repaid process? (c) Radiation	1
	iv.	Design and study of work environment to address physical and psychological demands of individuals is classified as (a) Ergonomics	1 1
	v.	Disorder which occurs in employees when individuals use same muscle repetitively to perform tasks is classified as (c) Ergonomics	e 1
	vi.	Workplace related injuries, illness and deaths impose costs upon (d) All of these	1
	vii.	Phosphine liberated in the stomach in aluminium phosphide poisoning is toxic to all except (b) Kidneys	2 1
	viii.	Magnan's symptoms are characteristic symptoms with which poisoning (c) Cocaine	1 1
	ix.	Eco-toxicology is the study of	1
	х.	(a) Chemical interactions of organism and environment.Which part of the NFPA marking system implies flammability?(d) Red	1
Q.2	i.	Characteristics of noise	2
	ii.	Non-auditory effects of noise	3
	iii.	Purpose of good lighting 2 marks	5
		Benefits of good lighting 3 marks	
OR	iv.	Difference between industrial hygiene and occupational health. Stepwise marking	5
Q.3	i.	List of notifiable diseases.	2
	ii.	Definition of sampling 2 marks	8
		Types of sampling 3 marks	
		Analysis of sampling 3 marks	

OR	iii.	Noise survey	4 marks	8
		Noise conservation programme	4 marks	
Q.4	i.	Routes of chemical entry.		3
	ii.	Types of exposure	3 marks	7
		Statistical analysis of dose response	4 marks	
OR	iii.	PPe's chemical emergency		7
		Stepwise marking		
Q.5	i.	Principles of first aid		۷
	ii.	First aid treatment for acids and alkalis		(
		Stepwise marking		
OR	iii.	First aid treatment for poison		(
		Stepwise marking		
Q.6		Attempt any two:		
	i.	Benefits of good housekeeping.		5
		Stepwise marking		
	ii.	Japanese concept of 'FIVE S'		5
		Stepwise marking		
	iii.	Application of ergonomics for safety & health		5
		Stepwise marking		
