Seat No.:	Enrolment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-IV (NEW) EXAMINATION - SUMMER 2022

e:29-06-2022

Subject Name: Occupational Health & Safety

Time:10:30 AM TO 01:00 PM To	otal Marks: 70	J
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Instructions:

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

	,	4. Simple and non-programmable scientific calculators are allowed.	Mark
Q.1	(a)	State the scientific safety management functions.	03
V. I	(b)	Discuss the safety measures for electric works.	04
	(c)	Explain the various routes of entry of toxicants in to the human body.	07
Q.2	(a)	Explain the 5 E's for accident prevention.	03
	(b)	Define permissible exposure limit, thereshold limit value, lethal dose and lethal concentration.	04
	(c)	Write a short note on factors impending safety and Accident prevention.	07
		OR	
	(c)	What is mean by occupational dieses? Group tem under physical agent, chemical agent & biological agent.	07
Q.3	(a)	Draw & explain the pyramid of fire.	03
	(b)	Explain the constituents of Ergonomics.	04
	(c)	With the help of table explain classification of fire and extinguishers.	07
		OR	
Q.3	(a)	Enlist steps of accident prevention.	03
	(b)	Explain safety terminology.	04
	(c)	What do you mean by the term ergonomics? Explain its Application.	07
Q.4	(a)	Give classification of PPE.	03
	(b)	Write a short note: Need of personal protective equipment (PPE).	04
	(c)	Define safety organization and enlist the objectives of safety Organization. OR	07
Q.4	(a)	Explain different types of Ventilation.	03
•	(b)	Give classification of occupational health hazards.	04
	(c)	Explain the Concept of Safety & Philosophy of Safety.	07
Q.5	(a)	What is Good House Keeping?	03
	(b)	Write a short note on On-Site Emergency Plan	04
	(c)	Write a short note on Fault Tree Analysis along with the example.	07
		OR	
Q.5	(a)	What do you mean by the term Total safety?	03
	(b)	Explain in brief Explosion control devices.	04
	(c)	Write a short note on Event Tree Analysis along with the example.	07