

GUJARAT TECHNOLOGICAL UNIVERSITY**BE- SEMESTER-VII (NEW) EXAMINATION – WINTER 2020****Subject Code:2173508****Date:21/01/2021****Subject Name:Safety Health & Environment****Time:10:30 AM TO 12:30 PM****Total Marks: 56****Instructions:**

1. Attempt any FOUR questions out of EIGHT questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

	MARKS
Q.1 (a) What do you mean by the term Safety?	03
(b) What is the Factors Impending Safety?	04
(c) Give fundamentals of accident prevention	07
Q.2 (a) Define: Oversight, Mistakes and Error	03
(b) Explain Constituents of Ergonomics	04
(c) Explain the routes of entry of toxic material in to human body.	07
Q.3 (a) What is Fire? Give the dangers associated with fire	03
(b) Give classification of Occupational health hazards.	04
(c) Discuss Indian standards for electrical safety	07
Q.4 (a) Enlist the dangerous properties of chemicals	03
(b) What may the cost of safety failure?	04
(c) Explain appropriate measures to control the hazards associated with noise, repetitive strain and stress?	07
Q.5 (a) What is Permissible exposure limit?	03
(b) Explain in brief Explosion control devices	04
(c) With the help of examples, give application of ergonomics for safety and health	07
Q.6 (a) What are the five Es of accident prevention?	03
(b) What is Good House Keeping?	04
(c) Discuss the requisite characteristics of personal protective equipment	07
Q.7 (a) Explain HAZOP?	03
(b) Write a note on Industrialization Vs. Accident.	04
(c) Write a short note: Event tree analysis	07
Q.8 (a) Explain HAZAN?	03
(b) Explain plant safety inspection in detail?	04
(c) Describe fault tree analysis in detail?	07
