

Enrolment No./Seat No _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.VOC- SEMESTER-VI EXAMINATION – SUMMER 2025

Subject Code:21160401

Date:08-05-2025

Subject Name: RAC Safety

Time:10:30 AM TO 12:30 PM

Total Marks:50

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.

	Marks
Q.1 (a) Write an explanatory note on accidents in industries and factories.	05
(b) What are causes of accident? How it can be prevented?	05
Q.2 (a) What do you mean by industrial safety? What are objectives and importance of industrial safety?	05
(b) Explain ANSI/ASHRAE codes for Piping and Valves.	05
OR	
(b) Explain ANSI/ASHRAE codes for pressure vessels.	05
Q.3 (a) Explain in detail physical injuries from mechanical causes.	05
(b) Define Electrical Injury. Write Short note on electrical safety rules.	05
OR	
Q.3 (a) Explain asphyxiation and its precaution.	05
(b) Define guidelines for how to use tools in industries for RAC Engineer.	05
Q.4 (a) Write Short note on: overview of ANSI/ASHRAE standard.	05
(b) Explain safety considerations for ammonia plants compared to those using halocarbons.	05
OR	
Q.4 (a) Write Short note on: General Safety Rules.	05
(b) Explain Personal Protective Equipment.	05
Q.5 (a) Define Corrosion and its Precautions.	05
(b) Write short note on fire-fighting precautions used in RAC safety.	05
OR	
Q.5 (a) Explain in brief about leak detection and ammonia sensors.	05
(b) Write short note on: Injuries due to High Pressure Refrigerant cylinder.	05
