

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BVOC- SEMESTER- IV EXAMINATION – SUMMER 2023

Subject Code: 21140403

Date: 28-06-2023

Subject Name: RAC Materials

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) Explain the different types of material used in refrigeration duct.	05
	(b) Write down the advantage and application of galvanized steel and carbon steel duct material.	05
Q.2	(a) How Fibrous Glass duct insulation improves the indoor environment.	05
	(b) Explain the different types of material used in refrigeration Compressor.	05
OR		
	(b) Explain the different types of different type of valve materials.	05
Q.3	(a) Explain the properties or characteristics of oil required for refrigeration system.	05
	(b) Write the short note on selection of refrigeration lubricant.	05
OR		
Q.3	(a) Explain compatibility of lubricant with refrigerant fluid.	05
	(b) Write the effect of refrigeration on lubricant Density.	05
Q.4	(a) Write the short note on cooling tower material.	05
	(b) Explain the different material used for RAC piping.	05
OR		
Q.4	(a) Explain how to select the material for the cooling tower.	05
	(b) Write the properties of synthetic repair Material.	05
Q.5	(a) Explain in detail the benefits of insulation.	05
	(b) Classify insulating materials.	05
OR		
Q.5	(a) Explain the different types of insulating materials.	05
	(b) Explain the elastomer materials with its advantages and disadvantages.	05
