

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.VOC- SEMESTER- I EXAMINATION – WINTER 2023

Subject Code:21110404

Date:01-01-2024

Subject Name:Refrigerants

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) What are the basic requirements for refrigerant?	05
(b) How physical properties of refrigerants are important?	05
Q.2 (a) How the refrigerants are important in air conditioning?	05
(b) Explain azeotropic and zeotropic.	05
OR	
(b) Enlist the selection procedure of refrigerant which is used in air conditioning system.	05
Q.3 (a) Give the difference between primary and secondary refrigerants.	05
(b) Explain in detail the properties of lubricating oils.	05
OR	
Q.3 (a) Explain in details anti-freeze solution.	05
(b) Explain the different types of Refrigerant oil used in refrigerating unit.	05
Q.4 (a) What are the applications of commonly used refrigerant.	05
(b) What is the purpose of using cooling media and liquid absorbents in refrigerating unit.	05
OR	
Q.4 (a) Write down the Properties of different types of refrigerants.	05
(b) Define Global Warming. Explain Global warming.	05
Q.5 (a) What are the major Effects of Greenhouse Effect?	05
(b) Explain thermal properties of refrigerants.	05
OR	
Q.5 (a) What are the major Causes of Global Warming?	05
(b) Explain Green-house gases with its effect on environment.	05
