

GUJARAT TECHNOLOGICAL UNIVERSITY**B.VOC - SEMESTER- IV EXAMINATION – SUMMER 2024****Subject Code: 21140401****Date:15-05-2024****Subject Name: RAC Piping Systems-II****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 NPSH. How it is useful in designing of pump.	05
(b) Explain Ultrasonic Testing.	05
Q.2 (a) Explain term Cavitation in detail.	05
(b) Explain Concept of thermal expansion in brief.	05
OR	
(b) Write down the scope and objectives of piping stress analysis.	05
Q.3 (a) Write the procedure to determine defects by magnetic particle test.	05
(b) Explain in brief Visual Examination.	05
OR	
Q.3 (a) Explain Liquid Penetrant Examination with neat diagram.	05
(b) How do you identify defects with the help of Radiography test.	05
Q.4 (a) Explain the term Fabrication and Erection in brief.	05
(b) Write Short note on Fabrication Materials for Piping Systems.	05
OR	
Q.4 (a) Explain Assembly and Erection process of piping fabrication in detail.	05
(b) Write Short note on Flanged Joint.	05
Q.5 (a) List various methods use for Leak testing and explain any one in detail.	05
(b) Write Short note on Punch List.	05
OR	
Q.5 (a) Explain the term testing of Piping Systems.	05
(b) Write short note on Preparation for Leak Test.	05
