

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
Ph.D. COURSE WORK EXAMINATION – SUMMER - 2022

Subject Code: PHD2001 [RME]

Date: 05/06/2022

Subject Name: Research Methodology_Engineering

Time: 11:30 AM – 1:00 PM

Total Marks: 35

Instructions:

- 1. Attempt all questions.**
- 2. Make suitable assumptions wherever necessary.**
- 3. Figures to the right indicate full marks.**

- Q.1 (a)** Write a critical review of 5 relevant research papers pertaining to your topic. Establish the Research Gap, based on this review. Describe the research methodology you will adopt to prove your hypothesis. **10**
- (b)** Organize and show your literature review to indicate the 10 best papers suited to your topic. **05**
- Q.2 (a)** Explain the approaches of research: Qualitative and Quantitative, giving reasons which you will choose. **05**
- (b)** What do you understand by Theoretical Framework? Site your own Theoretical framework. **05**
- Q.3 (a)** Describe Statistical Methods for Testing and Evaluation **05**
- (b)** Explain in detail what you understand by Characterization of Experiments. **05**
