

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**Ph.D. COURSE WORK EXAMINATION – SUMMER - 2021**

**Subject Code: PHD20-01**

**Date: 10/10/2021**

**Subject Name: Research Methodology [MGMT. & HE]**

**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.
4. Subject relevant literature, book, research papers are permitted to carry in the exam hall.
5. Use of e-books, e-materials on electronics devices are strictly prohibited.

- Q.1** (a) You are expected to pick up any research problem of your choice and develop your research proposal with all required component. **10**
- (b) Scaling describes the procedures by which numbers are assigned to various degrees of opinion, attitude and other concepts.” Discuss any 3 scaling techniques in detail and also point out the bases for scale classification. **05**
- Q.2** (a) Give your understanding of a good research design. Is single research design suitable in all research studies? If not, why? **05**
- (b) How will you differentiate between descriptive statistics and inferential statistics? Describe the important statistical measures often used to summaries the survey/research data. **05**
- Q.3** (a) The procedure of testing hypothesis requires a researcher to adopt several steps. Describe in brief all such steps. **05**
- (b) Empirical research in India in particular creates so many problems for the researchers”. State the problems that are usually faced by such researchers **05**

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