

GUJARAT TECHNOLOGICAL UNIVERSITY
Ph.D. COURSE WORK EXAMINATION – 2024 (REGULAR)

Subject Code: PHD2301**Date: 01/09/2024****Subject Name: Research Methodology_Management & Humanity-English****Time: 01:30 PM – 04:30 PM****Total Marks: 70****Instructions:**

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

- Q.1** (a) Discuss the various characteristics of Research. How, according to you, has Research contributed to and shall keep contributing to the various developments in the functional areas of management / development of literature and in the overall development of organizations/ societies/ knowledge domains, their policies and practices. **10**
Kindly elaborate and also give at least two examples to justify your elaboration.
- (b) Explain the use of Grounded Theory in Research. **10**
- Q.2** (a) Define the term ‘reliability’ and ‘validity’ as used in research. Explain different measures of reliability. Also explain different types of validity and how are they different from each other. **10**
- (b) Discuss levels of measurement (Nominal, Ordinal, Ratio, Interval) for the variable. **10**
- OR**
- (a) Identify the components of a research design. Make a research design based on these components for your doctoral research. **10**
- (b) Difference between Parametric and Non-Parametric Test **10**
- Q.3** (a) Given your area of Research, discuss which areas/domains of knowledge search are most pertinent to refer to in order to learn more of your subject matter and also to help identify the research gap. **05**
- (b) “Graphs make data reading simplified”. Explain the statement with a small example. **05**
- Q.4** (a) Given your area of Research, write down at least two Research Gaps. Based on these two Research Gaps, frame related Problem Statements and Research Objectives. **05**
- (b) Explain the pitfalls in undertaking Interpretation of Data? **05**

Q.5 (a) Explain different types of errors in measurement. How do you minimize these errors for your doctoral research work? **05**

(b) Applications of T Test in real life. **05**
