

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

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

# GUJARAT TECHNOLOGICAL UNIVERSITY

Ph.D. - SEMESTER- I EXAMINATION – SUMMER 2013

**Subject Code: PH0001**

**Date: 20-07-2013**

**Subject Name: Research Methodology (Management)**

**Time: 12.00 pm - 02.30 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. You have been given a responsibility of supervising a research project of a postgraduate student. After selecting area of research what would you expect from student to do for good hypothesis generation? Give detail instructions to the student. **8**
- b. What are the scientific misconducts in research? Discuss in detail with suitable example. How can we avoid these? **10**
- Q.2** You have a project of discovering novel COX-2 inhibitor. What path you will follow for successful result? What are the possible problems you may encounter during this research? Suggest remedy for these problems. **20**
- Q.3** Ms. Ramya is a scientist working in an academic institute. She has a good research project in her hand. Initial results are very encouraging. What should she do to move ahead with this research? What should she do to get good commercial and professional benefit out of this research? **20**
- Q.4** a. Dr. Ravi has published five papers in quality journal with good impact factor. Dr. Tim has published fifteen papers in journal with low impact factor. Dr. Dave has published five papers medium impact factor journal but has good citation index. Whose research work is of good quality and useful? Justify your answer. **5**
- b. Mr. Som has completed his post graduate research project. His proposal has been accepted for oral presentation in international symposium. He approached you for suggestion to make impeccable presentation. Give him suggestions with minute details. **7**

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