

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 (Engineering and Computer Science)

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** Answer briefly: **10**
- i.** Give names of more cited authors, along with the h-index and list of their research papers.
 - ii.** Give a list of your bibliography database.
 - iii.** Name the top five Journal Papers in your area of Research along with impact factor of the Journal.
 - iv.** Enlist the Bibliography tools you have used for searching literature in your area of research
 - v.** What parameters would you include in your critique of a journal paper?
- Q.2** Write a short (2-3) page paper on the Literature Review in your area of research. It should the examiner to a justification of your own research area and what could be the outcomes. **25**
- Q.3** Write a project proposal for your research in the following sequence : **25**
(1) literature search and facts to identify a problem; (2) conduct organized scientific investigations to solve the problem; (3) test hypotheses; (4) develop new theory or process; (5) identifying how your research could be used;
- Q.4** Answer in brief : **10**
- i.** Describe how you will define your Research Problem.
 - ii.** Explain the approaches of research : Qualitative and Quantitative, giving reasons which you will choose.
 - iii.** Explain how Plagiarism can be avoided.
 - iv.** Describe how research can be patented.
 - v.** Explain what content should be included in your Abstract.
