

Seat No.: _____

Enrolment No.: _____

GUJARAT TECHNOLOGICAL UNIVERSITY
PHD – SEMESTER 1 EXAMINATION - WINTER - 2019

Subject Code: PHP001

Date: 20-10-2019

Subject Name: Research Methodology

Time: 03:00 PM to 06:00 PM

Total Marks: 70

Instructions:

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

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|------------|---|-----------|
| Q.1 | a What is basic research? Explain with suitable example. | 02 |
| | b Discuss the importance of accuracy in research | 02 |
| | c What is h-index and discuss its importance | 02 |
| | d Give the name of software's used to finding out plagiarism | 02 |
| | e Enlist the name of search engines used for literature survey | 02 |
| | | |
| Q.2 | a Discuss the various steps of Research | 10 |
| | b Explain the Deduction and Induction reasoning in research with examples | 10 |
| | c Explain the various characteristics of research | 05 |
| | | |
| Q.3 | a Lifestyle disorders are the major non-communicable diseases and you have selected the same for your systematic research on discovery of new drugs from herbal sources. How would you carry out this research work? Explain in detail | 10 |
| | b Discuss the various ethical issues in Research. Give the some examples of common unethical practices in research | 05 |
| | c What is plagiarism? Explain with suitable examples | 05 |
| | e Importance of Statistical Analysis in biological research | 05 |
| | | |
| Q.4 | a Discuss the structure of Arguments | 02 |
| | b Graphical representation of data in biological research | 02 |
| | c Give the full form of (1) DBT (2) CDRI (3) ICMR (4) UGC | 02 |
| | d What is a citation? Discuss the MLA (Modern Language Association) style | 02 |
| | e Sources of Research Problems | 02 |
