

**GUJARAT TECHNOLOGICAL UNIVERSITY****M. Pharm. - SEMESTER– II• EXAMINATION –SUMMER-2016****Subject Code: 2920001****Date: 17/05/2016****Subject Name: Research Methodology****Time: 10:30 AM to 1:30 PM****Total Marks: 80****Instructions:**

- 1. Attempt any five questions.**
- 2. Make suitable assumptions wherever necessary.**
- 3. Figures to the right indicate full marks.**

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|-------------|--|-----------|
| <b>Q.1</b>  | (a) Define 'Research' and write a detail note on objective of research.  | <b>06</b> |
|             | (b) Describe various sources of research grant.  | <b>05</b> |
|             | (c) Enlist different parts of the thesis and explain Rationale and Abstract.                                     | <b>05</b> |
| <b>Q.2</b>  | (a) Define Hypothesis and describe types, characteristics and functions of Hypothesis.                           | <b>06</b> |
|             | (b) Write a short note on questionnaire.   | <b>05</b> |
|             | (c) Describe importance of Industry-Institute interaction in research.   | <b>05</b> |
| <b>Q.3</b>  | (a) Define Research Problem and describe criteria for selection of good research problem.                        | <b>06</b> |
|             | (b) Describe in brief about various sources of literature review.  | <b>05</b> |
|             | (c) Describe different techniques of Documentation.  | <b>05</b> |
| <b>Q.4</b>  | (a) Describe AICTE schemes for research funding.   | <b>06</b> |
|             | (b) Describe importance of Data analysis in research.  | <b>05</b> |
|             | (c) Describe different types of Research.  | <b>05</b> |
| <b>Q.5</b>  | (a) Explain the limitation and sources of error in research.   | <b>06</b> |
|             | (b) Discuss importance of computer in documentation of research work.  | <b>05</b> |
|             | (c) Describe various steps to establish Industry-institute interaction cell.                                     | <b>05</b> |
| <b>Q. 6</b> | (a) What is Audio visual aid? Explain importance of AV aids in a presentation.                                   | <b>06</b> |
|             | (b) Write short note on Oral presentation.   | <b>05</b> |
|             | (c) Write difference between Research paper writing and Thesis writing.  | <b>05</b> |
| <b>Q.7</b>  | (a) Describe different reference styles used in writing research paper with example.                             | <b>06</b> |
|             | (b) Write a short note on feasibility report.  | <b>05</b> |
|             | (c) Prepare a draft for MODROB proposal for sophisticated instrumental lab to be submitted to AICTE for funding. | <b>05</b> |

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