

M.Sc.(Mathematics) (NEP Pattern) Semester-I  
**NEP-65 - RM Paper-IV - Research Methodology**

P. Pages : 2

Time : Three Hours



**GUG/W/24/15124**

Max. Marks : 80

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- Notes : 1. Solve all **five** questions.  
2. All questions carry equal marks.

**UNIT – I**

1. a) Explain qualities of Researcher. 8  
b) Write a note on research Methods. 8

**OR**

- c) What is Philosophy and science? 8  
d) Write in brief about Cross sectional Study. 8

**UNIT – II**

2. a) Write in detail, a note on “Finding a Research Problem”. 8  
b) Explain the role of libraries in research. 8

**OR**

- c) Explain Bibliographic Databases. 8  
d) Discuss structure of a thesis. 8

**UNIT – III**

3. a) Write in brief the Structure of a Research Paper.  
b) Discuss Parts of a Thesis. 8

**OR**

- c) Discuss Bar Diagrams, Pie Diagrams and Sketch the figures of each type. 8  
d) Write in detail the difference between oral presentation and poster presentation. 8

## **UNIT – IV**

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|-----------|----|---|----------|
| <b>4.</b> | a) | Explain in detail Intellectual Property Rights. | <b>8</b> |
|           | b) | Discuss Misconduct in Science.                  | <b>8</b> |

**OR**

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|-----------|----|--|----------|
|           | c) | Write in detail need of Code of Conduct. | <b>8</b> |
|           | d) | Write in detail types of Plagiarism?     | <b>8</b> |
| <b>5.</b> | a) | Explain Reductionism.                    | <b>4</b> |
|           | b) | Write a short note on sampling.          | <b>4</b> |
|           | c) | Explain Grey Literature.                 | <b>4</b> |
|           | d) | Write a short note Shodhganga.           | <b>4</b> |

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