

M.Sc.(Biotechnology) (NEP Pattern) Semester-I  
**NEP-95 / 01MSCBT09 - Research Methodology Paper-V**

P. Pages : 1

Time : Three Hours



**GUG/W/24/15060**

Max. Marks : 80

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- Notes : 1. All questions are compulsory and carry equal marks.  
2. Draw diagrams wherever necessary.

- 1.** Describe in detail pure and applied design of research on the basis of application. **16**

**OR**

Add notes on:

- a) Motivation in research. **8**  
b) Types of research design. **8**

- 2.** What is descriptive research? Explain qualitative and quantitative research with suitable example. **16**

**OR**

Write notes on:

- a) Discuss stratified and systematic sampling. **8**  
b) Describe secondary sources of data with suitable examples. **8**

- 3.** Describe different presentation skills as a part of research formulation. **16**

**OR**

Write notes on:

- a) Significance of computing skills for scientific research. **8**  
b) Effective email strategy using the right tone and conciseness. **8**

- 4.** Explain in detail peer review process and problems in publishing scientific papers. **16**

**OR**

Write notes on:

- a) Technical writing skills. **8**  
b) Open access and non blind review as recent developments in publishing scientific papers. **8**

- 5.** Write short notes on:
- a) Steps in research process. **4**  
b) Systematic data collection. **4**  
c) Defending Interrogation. **4**  
d) Drafting titles. **4**

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