

Q.P. Code: 101390

Reg. No.:.....

**First Semester M.Sc Speech Language Pathology Degree Regular/
Supplementary Examinations January 2026**

SLP 101: Research Methods, Statistics and Epidemiology

Time: 3 hrs

Max marks: 80

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essays

(5x16=80)

1. a) Explain the types of research
b) Discuss the ethical considerations in research (8+8)
2. a) Describe the criteria for characterizing the causality of associations
b) Discuss about the application and impact of epidemiology on national and local policy (8+8)
3. a) Write a note on exploratory data analysis
b) Explain about the basic concepts related to hypothesis testing (8+8)
4. a) List the difference between MANOVA and MANCOVA
b) What is principal component analysis, justify the need to do principal component analysis (8+8)
5. a) Write a note on effect size and statistical significance
b) What are the challenges in implementation of evidence based practice on speech language pathology (8+8)
