

**First Semester M.Sc. Audiology Degree Regular/Supplementary
Examinations January 2026**

A 101: Research Methods, Statistics & 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 any two single-subject designs with merits and demerits and give appropriate examples from the field of speech and hearing.
b) Discuss the importance of documentation in research and the format to be followed for any scientific articles as per APA. (8+8)
2. a) Write a note on importance of epidemiological research in the field of audiology and speech language pathology.
b) Describe the impact of epidemiology on policies at the national level. (10+6)
3. a) Test the association between Delayed birth cry and Speech disorders in the following data:

Delayed birth cry	Speech disorders	
	Present	Absent
Yes	52	18
No	9	108

- b) Differentiate between parametric and non-parametric statistical methods. (10+6)
4. a) Test the significance in the following data using ANOVA:

Group 1	10	12	10	9	8	10
Group 2	21	20	13	15	14	15
Group 3	9	8	7	10	11	12

- b) Write a brief note on types of correlation. (10+6)
5. Write short notes on:
 - a) Quasi Experimental study
 - b) Meta-analysis (8+8)
