

Q.P. Code: 101389

Reg. No.:.....

**First Semester M.Sc. Audiology Degree Regular/Supplementary
Examinations January 2022**

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) Attempt a critical evaluation appraisal of research methods employed in hearing research
(b) Discuss Sample Surveys (8+8)
2. (a) Attempt an evaluation of screening procedures employed in the field of audiology
(b) Explain clinical trials (8+8)
3. (a) Explain hypothesis testing with Chi square statistic in research
(b) The gender preferences for body level and behind the ear hearing aid is as follows

Gender	BL	BTE
Men	207	282
Women	231	242

- Use Chi square to answer which hearing aid is preferred (8+8)
4. (a) Write a note on Principal Component Analysis
(b) What is logistic regression State its assumptions. (8+8)
 5. (a) Discuss the measures of diagnostic accuracy.
(b) Explain the triad of evidence based practice. (8+8)
