

Q.P. Code: 101389

Reg. No.:.....

**First Semester M.Sc. Audiology Degree Regular Examinations
May 2021**

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) Highlight the defining characteristics of experimental research and their applicability in the field of hearing research
(b) Discuss ethical considerations in research (8+8)
2. (a) Discuss the scope and functions of epidemiology related to audiology
(b) Write a note on cohort studies (8+8)
3. (a) Distinguish parametric and non-parametric approaches to hypothesis testing
(b) The following table gives the scores of 10 subjects on a test. Calculate the coefficient of correlation between X and Y (8+8)

Subjects	1	2	3	4	5	6	7	8	9	10
X	12	14	16	18	20	22	24	24	26	28
Y	36	33	30	27	24	21	18	15	12	13

4. (a) Explain correlation and regression. Discuss their types and uses.
(b) Calculate the regression coefficient for the following data

X	1	2	3	4	5	6	7
Y	9	8	10	12	11	13	14

(8+8)

5. (a) Define evidence based practice. Explain the common sources of evidence.
(b) Write a note on systematic reviews and meta-analysis (8+8)
