**First Semester M.Sc Speech Language Pathology Degree
Regular/Supplementary Examinations January 2022**

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) Highlight the salient differences between descriptive, correlational and experimental research

    (b) Write a note on ABA withdrawal and reversal design   (8+8)

2. (a) Define epidemiology. Explain its role in speech, language and hearing.

    (b) Write a brief note on descriptive and analytical epidemiology.   (8+8)

3. Differentiate between parametric and non-parametric statistics. Explain their applications in the field of speech and hearing research.

4. (a) Define correlation. Explain the various types of correlation.

    (b) Calculate the Spearman's Rank Correlation Coefficient for the following.

X	60	110	65	40	70	20
Y	90	100	80	30	70	20

                                                                       (8+8)

5. (a) Explain the steps in evidence based practice in the context of speech language and hearing.

    (b) Write a note on randomized control trials   (8+8)

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