

Q.P. Code: 101390

Reg. No.:.....

**First Semester M.Sc Speech Language Pathology Degree Special
Supplementary Examinations December 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) Bring out the importance of experimental designs and their applicability in the field of speech-language research
(b) Discuss ethical issues in research and documentation in research (8+8)
2. (a) Discuss the various methods used in the field of epidemiology.
(b) Write a note on prevalence and incidence. (8+8)
3. (a) What is multivariate analysis. Explain their features and applications in the field of speech and hearing
(b) A speech recognition pre-test and post-test was given to 12 children in between an intensive speech therapy program. The scores recorded are shown. Evaluate the scores and discuss the outcome of the speech therapy program.

Case	1	2	3	4	5	6	7	8	9	10	11	12
Pretest	50	42	51	26	35	42	60	41	70	55	62	38
Posttest	62	40	61	35	30	52	68	51	84	63	72	50

(Value for 'r' for 11 degrees of freedom at 5% level of significance is 2.20) (8+8)

4. (a) Mention the major properties of normal distribution curve
(b) Define probability. Differentiate between the terms mutually exclusive and exhaustive events (8+8)
5. (a) What is evidence based practice. Explain the hierarchy of evidence.
(b) Write a note on advantages and disadvantages of evidence based practice. (8+8)
