

Q.P.Code: 101377

Reg. No.:.....

First Year MASLP Degree Examinations, August 2016

STATISTICS AND RESEARCH METHODS

Time : 3 hrs

Max marks : 80

- **Answer all questions.**

Essays

(5x16=80)

1. Distinguish between observational research and experimental research. State a research question/problem in speech and hearing field for both observational research and experimental research. (8+8)
2. Why multivariate statistical methods are important in the field of speech and hearing. Explain any three methods of multivariate statistical methods in detail. (4+12)
3. What are the concepts of probabilities and what is its range. How do you interpret $P < 0.05$ in test of significance of hypothesis.

The marks scored in Statistics before conducting the teaching program and the marks scored after conducting the teaching program of 5 students are given below:

Student	Before the Program	After the Program
1	4	7
2	2	4
3	3	1
4	0	3
5	6	5

Apply pared-sample t-test and draw statistical inference (4+4+8)

4. Define Correlation. Explain different types of correlation with examples (10+6)
5. Distinguish between qualitative research and quantitative research. Describe a protocol for a research proposal to study epidemiology of language disorders. (8+8)
