

Q.P.Code: 207015

Reg. No.:.....

**Second Year BASLP Degree Supplementary Examinations - June 2013**

**Statistics and Research Methods & Epidemiology in Speech and Hearing**

Time: 3 hrs

Max marks :80

- Answer all questions

**Essay:**

(4x10=40)

1. Define correlation. Calculate Pearson's correlation coefficient for the following data and interpret its meaning for the marks obtained by 5 students in speech pathology and audiology.

Speech Pathology	45	20	40	25	45
Audiology	48	35	17	23	47

2. Explain how student's t test is used to test the significance of the difference between the means of two independent samples. Marks obtained by two groups of students are given. Calculate the t-value

FIRST GROUP	18	20	36	50	49	36	34	49	41
SECOND GROUP	29	28	26	35	30	41	46		

3. What is the need for hypothesis in research. Discuss in detail, steps involved in research
4. Explain briefly about the incidence and prevalence of speech disorders

**Short notes**

(5x5=25)

5. Method of construction of a histogram and a frequency polygon.
6. Skewness and Kurtosis with diagrams
7. Type I and Type II errors in hypothesis testing
8. Non probability sampling methods.
9. Need for school screening to identify children with hearing loss

**Answer briefly**

(5x3 = 15)

10. Research designs
11. Measures of central tendencies
12. Standard deviation
13. Classification of data
14. Personal survey

\*\*\*\*\*