

**Second Year BASLP Degree Examinations -August 2014**

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

**Time : 3 hrs**

**Max marks : 80**

- **Answer all questions**
- **Use only ordinary calculators**

**Essay:**

**(4×10=40)**

1. Discuss the various measures of central tendencies. What are the requisites of a good measure of central tendency
2. Explain the properties of a normal distribution. The scores made by candidates in a certain test are normally distributed with mean 500 and standard deviation 100. What percent of candidates receive a score between 400 and 500
3. How to develop a hypothesis in research. Discuss the various types of hypothesis for carrying out a scientific enquiry.
4. Explain briefly about the incidence and prevalence of hearing loss in adults and geriatrics

**Short notes**

**(5×5=25)**

5. Probability sampling methods
6. Ordinal and nominal scales of measurement
7. Spearman's rank correlation
8. Sampling error
9. Role of media in epidemiological studies

**Answer briefly**

**(5×3 = 15)**

10. Students; t test
11. Ogives
12. Mention the characteristics of a good research hypothesis
13. Distinguish between primary data and secondary data
14. Prevalence of learning disability