

Ph.D. (Speech-Language Pathology) / Ph.D. (Audiology)

Advanced Research Methodology in Speech and Hearing

Time: 2 hrs

Max Marks: 50

Note: Answer all questions

- I) 1) Citing suitable examples from your field of interest, describe how the following are important in selecting a research question: 10
[i] Feasibility [ii] Ethical [iii] Novelty [iv] Relevant [v] Interest
OR
- 2) Briefly describe the following attributes of ethics in research: 10
[i] Ethical integrity of the researcher [ii] Confidentiality [iii] Equipoise [iv] Protection of vulnerable population
- II) 3) a) Describe different sampling techniques. 03
b) What is one and two sided alternative hypothesis? 02
c) Write a note on any one method used to assess validity. 05
OR
- 4) a) Define the 'loci of independent variables with an example. 03
b) Define the 'integrity' of independent variables with an example. 03
c) How is 'interaction' studied in single subject designs? 04
- III) 5) a) What is translational research? 02
b) When and why are time series designs chosen in the field of speech, language and hearing? Quote examples. 08
OR
- 6) a) What is a case control study? Give one example from your area of interest. 05
b) Discuss the factors that need to be kept in mind when a questionnaire is designed for the purpose of research. 05
- IV) 7) a) Compare and contrast paired t-test and repeated measures analysis of variance with examples. 10
OR
- 8) a) Explain the significance of χ^2 test in speech and hearing research. 10
- V) 9) a) What is the difference between a reference list and a bibliography? 02
b) What are the principles of good writing in research reports? 08
OR
- 10) a) What are the standard subheadings of the 'method' section according to APA manual? 03
b) What is meant by 'internal consistency evaluation' of a research? 02
c) Describe the criteria for evaluating scientific studies 05