



ALL INDIA INSTITUTE OF SPEECH AND HEARING, MYSORE - 06

Ph.D. course work Examination 2022

Advanced Research Methodology in Speech and Hearing

Time: 3 hours

Max Marks: 70

Part A

Multiple choice questions:

1 x 20: 20 marks

1	Which among the following tests the null hypothesis that the variances in different groups are equal?			
	a) t -test	b) Median test	c) Repeated measures ANOVA	d) Levene's test
2	Which of the following are spots from review of literature for identification of research gaps			
	a) Confusion spots	b) Neglect spot	c) Application spot	d) All of the above
3	Comparative research is considered as a			
	a) Quantitative research	b) Qualitative research	c) a and b	d) None of the above
4	Which of the following are the types of extraneous variables			
	a) Confounding variables	b) Intervening variables	c) Confounding and intervening variables	d) None of the above
5	Which of the following statements holds good for the stratified sampling			
	a) It increases a samples statistical efficiency	b) Provides adequate data for analysing the various sub populations	c) Applies different methods to different strata	d) All the above
6	The Boxplots are used to represent:			
	a) Inter-quartile range	b) Arithmetic mean	c) Standard deviation	d) Mode
7	When a researcher selects a fixed number of people belonging to different categories in the population is referred as			
	a) Snowball Sampling	b) Quota Sampling	c) Cluster Sampling	d) Simple Random Sampling
8	The error rate across statistical tests conducted on the same data is known as			
	a) Family wise error rate	b) Statistical error rate	c) Significance rate	d) None of the above
9	Which of the following properties are required for a good assessment tool			
	a) Objectivity	b) Reliability	c) Validity	d) All of them
10	Validity of a research design as a whole is referred as			
	a) Inference validity	b) Construct validity	c) Face validity	d) Content validity

11	Publications of Government or semi-government data is an example of			
	a) Primary data	b) Secondary data	c) Primary and secondary data	d) None of them
12	Which of the following are example(s) of non-written documents			
	a) Censes	b) Correspondence	c) Pictures	d) Diaries
13	Which type of research is concerned with a deep understanding of a phenomenon through narrative description, typically obtain under less structured conditions?			
	a) Qualitative research	b) Quantitative research	c) a and b	d) None of them
14	MANOVA can be used to detect group differences on			
	a) Ordinal outcomes	b) Qualitative outcomes	c) Single outcome	d) Several outcomes
15	A research design with one independent variable with any number of levels is known as			
	a) Single factor design	b) Two factor design	c) Three factor design	d) Multi-factor design
16	Which of the following are the non-experimental research methods			
	a) Ex Post Facto research	b) Normative research	c) Standard group comparison	d) All of them
17	Studying the history of prominent institutions which provides numerous problems for significant historical research is referred as			
	a) Bibliographic research	b) Studying the history of ideas	c) Studying the history of institutions and organizations	d) Documentary research
18	A mixture of qualitative and quantitative methods in a single study is referred as			
	a) Quantitative research method	b) Qualitative research method	c) Mixed research method	d) None of them
19	Which section of the research article summarize the data without comment, bias, or interpretation			
	a) Introduction	b) Review of literature	c) Results	d) Discussion
20	Which of the following are the components in the method section of research article			
	a) Study design	b) Condition, factors, or disease studied	c) Details of sample	d) All of them

Part B

Write an essay on any five of the following:

5 X 10 = 50

1. What are the various factors one should consider while planning feasible research studies in the field of Speech Language and Hearing
2. Explain the various resources for selecting the research problems
3. Explain the probability and non-probability sampling methods
4. Explain the various psychometric properties for constructing a test
5. Write an essay on applications of statistical analysis for analysing the relationship among variables.
6. How to select the statistical analysis required for the study based on the research design.
7. What should be the vocabulary and syntax considerations while writing the scientific reports