Sl. No. 0021

Total No. of Pages: 4

Ph.D. Course Work Examination, December - 2021 ADVANCED RESEARCH METHODOLOGY IN SPEECH & HEARING

Time: 3 Hours

Max. Marks: 70

Part-A

Multiple Choice questions:

 $[20 \times 1 = 20]$

- 1) We need to review the existing literature because
 - To know what is already there in the literature
 - b) To understand the flow of writing
 - c) To list more references for your final project submission
 - d) None of the above
- 2) Major limitation of systematic review is
 - a) It is too technical
 - b) Needs access to many paid softwares
 - c) Cannot interpret qualitative data
 - d) Very difficult to perform
- 3) Dividing the population into comparable groups such as schools, cities represent
 - a) Stratification

b) Clustering

c) Group sampling

d) Snowball sampling

- 4) Sampling error =
 - a) Frame error + chance error
 - b) Frame error + Response error
 - c) Chance error + Response error
 - d) Frame error + Chance error + Response error

5)	Proportion of people in a population that is initially free of disease and wh develops the disease during a specified period of time refers to								
	a)	Incidence rate		b)	/ Incidence pro				
	c)	Period prevalence		d)	Point prevale	*	V		
6)	Relative risk ratio is measured in					. ,			
	a)	a) Cohort study			Case control	study	٠		
	c)	Cross-sectional stu	ıdy	d)	RCT		<i>'</i> /		
7)	Two way stratified randomization is followed in								
	a) Crossover designs								
	b) Latin square designs					+			
	c) Randomized complete block design								
	d)/	1							
8)	Percentage of positive results that are true positives refers to								
	a) Sensitivity		b)	Specificity	4				
	c) Positive predictive value		d)	Negative pred	ictive value	•			
9)	X axis in a ROC curve represents								
	a)	Sensitivity		b)	Specificity	,			
	·c)´	1-sensitivity		d)	1-Specificity	*			
		•	•						
10)	Rejecting a true null hypothesis is								
	a)	Alpha error		b)	Beta error	*			
	c)	Gamma error		d)	Lamda error				
11)	Following are the components of research article except								
	a)/	Review of literature	·	b)	Results	X			
	c)	Discussion		d)	Budget details	, ,			

12)	Following are the methods used in qualitative research except									
	a)	Ethnography	b)	Grounded theory						
	c)	Case study	d)	Case control study						
13)	Characteristics of good research question									
,	a)	Feasible .	b)	Ethical						
	c)	Novel	å)	All the above						
14)	T ir	the acronym PICOT refers to								
,	a)	Template	(b)	Time						
	c)	Test	d)	Tool						
15)	In a normal distribution, mean-2SD, Mean+2SD includes									
	a)	68.27% of observations	b)	95.45% of observations						
•	(c)	99.73% of observations	d)	100% of observations						
16)	Too small sample size in the study leads to									
·	a)									
	b)	Underpowered study			:					
	c)	Unable to yield useful results								
	·d)/	All the above								
17)	Ran	domization		. •						
	a) Eliminates allocation bias		•							
•	b)	Makes the treatment group comparable								
	c)									
	d)	All the above			•					
	/		•							

- 18) Minimum acceptable response rate for survey research through Email is
 - a) 30%

b) 50%

c) 70%

- d) 20%
- 19) Major Strengths in survey research except
 - a) Able to study the attitudes which are otherwise difficult to study
 - b) Quick to complete
 - c) Good response rate
 - d) Provides estimates of the true population characteristics
- 20) SPSS refers to
 - a) Social science Package for Statistical Science
 - b) Statistical Package for Social Sciences
 - c) Statistical Package for Scientific Studies
 - d) None of the above

Part-B

Write an essay any five of the following:

 $[5 \times 10 = 50]$

- 1) How do you conduct a systematic review and Meta analysis?
- 2) Describe APA version of Reference writing and give 5 examples
- 3) Explain qualitative research method using ethnography technique
- 4) Compare and contrast cohort study and case control study
- 5) How do you conduct Delphi survey for the purpose of test development?
- 6) Explain the factors to be considered while planning a research study.
- 7) Discuss the applications of tests of reliability and validity

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