C 3370		(Pages:	6)	Name
				Reg. No
	Ph.D. ENTRANCE	EXAMI	NATION, AF	PRIL 2021
	I	EDUCAT	ION	
Time : Two	Hours			Maximum: 100 Marks
		Part A		
$Put\ X\ m$	All 25 questions und ark in the concerned column a	-		
1. A researcher conducted three experiments with 100 subjects each, following uniform design, instead of one experiment with 300 subjects. This is known as:				
(a)	Replication.	(b)	Manipulation.	
(c)	Observation.	(d)	Validation.	
	of publishing the same data a of the following professional iss		in more than or	ne journal or publication refers to
(a)	Partial publication.	(b)	Duplicate publ	ication.
(c)	Full publication.	(d)	Plagiarism.	
3. Why is it important that personal data about research participants be kept within secure confidential records?				
(a)	To observe principle of resear	ch ethics.		
(b)	To sell the data at a later stag	ge to recov	er the cost of re	search.
(c)	To keep secrecy from other re	searchers.		
(d)	So that nobody can manipula	ite the resi	ults of the findi	ngs.
4. The im	portance of measurement in qu	uantitative	e research is tha	at:
(a)	It allows us to delineate fine o	differences	s between people	e or cases.
(b)	It provides a consistent device	e or yardst	ick.	
(c)	It allows for precise estimates	s of the deg	gree of relations	hip between concepts.
(d)	All the above.			

5.	The deg	The degree to which results of a study can be extended to other settings or conditions describes :			
	(a)	Population generalizability.			
	(b)	Conclusions researchers make about a random sample.			
	(c)	Conclusions researchers make about information uncovered in research study.			
	(d)	Ecological generalizability.			
6.	A resea	arch design is :			
	(a)	A common method adopted by all researchers to carry out research.			
	(b)	The final choice between using qualitative or quantitative methods.			
	(c)	Presentation of research findings.			
	(d)	A framework for every stage of the	e data	a collection and its analysis.	
7.	When a	a research problem is related to hete	eroge	nous population, the most suitable method is:	
	(a)	Cluster sampling.	(b)	Stratified sampling.	
	(c)	Convenient sampling.	(d)	Lottery method.	
8.		estigator wants to study the vocation phical area. He should select his sa		pirations of visually challenged children in a wide by using :	
	(a)	Simple random sampling.	(b)	Stratified sampling.	
	(c)	Purposive sampling.	(d)	Convenient sampling.	
9.	Which	of the following variables cannot be	expr	essed in quantitative terms?	
	(a)	Socio-economic status.	(b)	Marital status.	
	(c)	Numerical aptitude.	(d)	Professional attitude.	
10.		rcher selects a probability sample of be used for selecting sample?	f 100 (out of for a total population. Which of the following	
	(a)	A quota samples.			
	(b)	A simple random sample.			
	(c)	A stratified random sample arch.			
	(d)	A systematic sample.			

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11.		archer divides the school students on the basis of gender and then by using t ne selects some of them from each group. This process is called :	he random digit
	(a)	Stratified sampling.	
	(b)	Stratified random sampling.	
	(c)	Representative sampling.	
	(d)	None of the above.	
12.	To ensu	ure accuracy of a research, the sample should be:	
	(a)	Taken randomly.	
	(b)	Fixed by quota.	
	(c)	Representative of the population.	
	(d)	Purposive.	
13.	Which	of the following is a non-probability sample?	
	(a)	Quota sample.	
	(b)	Simple random sample.	
	(c)	Purposive sample.	

(a) Natural science methods should not be applied to social science research.

Social science methods cannot be applied in natural sciences.

Knowledge is acquired through our sensory perceptions.

(d) Both (a) and (c).

Cost factor.

All the above.

None of the above.

15. An empiricist believes that:

(a)

(b)

(c)

(d)

(d)

14. The feasibility of a research study generally depends upon:

Time required to conduct research.

Skills set of the researcher.

16.	The exp	perimental study is based on :		
	(a)	Law of single variable.	(b)	Manipulation.
	(c)	Both (a) and (b).	(d)	None of the above.
17.	What is	s the position held by a positivist as	far a	s acquiring knowledge is concerned?
	(a)	A general positive attitude toward	s rese	earch.
	(b)	Scientific research should be based	d on v	value-free, empirical observations.
	(c)	Exact knowledge can be acquired	from	the society.
	(d)	None of the above.		
18.	The tw	o main approaches of a research are	э:	
	(a)	Data collection and data analysis.		
	(b)	Surveys and questionnaires.		
	(c)	Sampling and data collection.		
	(d)	Qualitative and quantitative.		
19.	Qualita	ative research is:		
	(a)	Without any specific purpose.		
	(b)	Primarily concerned with in-depth	expl	oration of phenomena.
	(c)	Deals with the collection and anal	ysis c	f numerical data.
	(d)	None of the above.		
20.	Which	of the following is not a characterist	tic of	a researcher ?
	(a)	Industrious and persistent.		
	(b)	Specialist rather than a generalist	·•	
	(c)	Objective.		
	(d)	Not versatile in his interest and ev	en in	his native abilities

21. An important practical issue to consider while designing a research project is:

An interesting theoretical perspective.

Add to knowledge of researcher only.

None of the above.

Availability of time and other resources.

(a)

(b)

(c)

(d)

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22.	Which of the following research specifically requires objectivity to discover facts and causes from
	the data gathered for the purpose?

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(a) Quantitative research.

(b) Fundamental research.

(c) Qualitative research.

(d) Action research.

- 23. In psychology and education, experimental research is also termed as:
 - (a) S-R (stimulus-response) research.
 - (b) Analytical research.
 - (c) Historical research.
 - (d) Ex-Post Facto research.
- 24. Fundamental research is usually carried out in:

(a) Classroom.

(b) Field setting.

(c) Laboratory conditions.

- (d) Social setting.
- 25. The research which is exploring new facts through the study of the past is called:
 - (a) Philosophical research.
 - (b) Historical research.
 - (c) Mythological research.
 - (d) Content analysis.

 $(25 \times 2 = 50 \text{ marks})$

Part B

Answer any **five** of the following.

Each question carries 10 marks.

Answer in the answer booklet provided.

- 1. Explain Type-I and Type-II errors with examples.
- 2. "Triangulation can substantially increase the credibility or trustworthiness of a research finding".

 Justify the statement by explaining meaning and objectives of triangulation in research.
- 3. Discuss various threats to internal validity in an experimental research design. How will you minimise these threats as a researcher?
- 4. Explain the different Non-Random sampling methods with examples.

- 5. Explain the conditions and limitations for applying Chi-square test.
- 6. What precautions would you take while using the data from secondary sources?
- 7. What do you mean by research report? What are the different types of hypotheses? Formulate three hypotheses relating to your research study.
- 8. Explain the principles of ethical consideration in Educational Research.

 $(5 \times 10 = 50 \text{ marks})$