MAY 2022 EBS 339J INTRODUCTION TO RESEARCH METHODS IN EDUCATION 2 HOURS

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UNIVERSITY OF CAPE COAST COLLEGE OF EDUCATION STUDIES SCHOOL OF EDUCATIONAL DEVELOPMENT AND OUTREACH INSTITUTE OF EDUCATION

COLLEGES OF EDUCATION FOUR-YEAR BACHELOR OF EDUCATION (B.ED) THIRD YEAR, END-OF-FIRST SEMESTER EXAMINATION, MAY 2022

MAY 24, 2022

INTRODUCTION TO RESEARCH METHODS IN EDUCATION

9:00 AM - 9:40 PM

This paper consists of two sections, A and B. Answer ALL the questions in Section A and Section B. Section A will be collected after the <u>first 30 minutes</u>.

SECTION A

Answer ALL the questions in this Section.

For items 1 to 20, each stem is followed by four options lettered A to D. Read each item carefully and circle the letter correspondent to the correct or best option.

- 1. A study that tested a hypothesis derived from a theory which suggests that reinforcement affects long term memory would be an example of research.
 - A. applied
 - B. basic
 - C. descriptive
 - D. postmodern
- 2. If the authors of a textbook report results of their own experiments, that portion of the text in the textbook would be considered as a source of literature.
 - A. preliminary
 - B. primary
 - C. secondary
 - D. tertiary
- 3. A thesis or dissertation is like a research proposal except for the
 - A. literature review chapter.
 - B. organization of research articles in journals.
 - C. organization of research methodology.
 - D. research findings and discussion chapters.

A. directional	INTRODUCTION TO RESILUECE
B. interrogative	
C. null	
D. objective	
A. nothing should be do	ch project drops out partway through the study
C. they should be info	rmed that they must contact the motitudes.
Which of the following	correlation coefficients represents the highest reliability score?
A0.78	
B0.05	
C. 0.08	
D. 0.10	
7. Which of the following weight of learners?	scales of measurement is most appropriate for representing data on
B. Nominal.	Answer ALL the questions in this Ser
C. Ordinal.	
D. Ratio.	
An appropriate stateme	nt of the statistical hypothesis would be that
A no difference will l	be found between the groups being compared in one's research study.
B. the difference between C. the group receiving	ween sample means reflects a true difference between population means. g the experimental treatment will receive higher scores than the control
group.	is a superior of the population from which it is drawn.
D. the research sample	e will behave differently than the population from which it is drawn.
	1
9. A researcher is interest	ted in the relationship between students' academic achievement and class
size. The appropriate u	nit of analysis is the
A. classroom.	
B. individual student	U. secondary
C. school.	
D. All the above.	
10 All the members of a	real or hypothetical set of persons, objects or events to which researchers
wish to generalize res	earch results are called a(an)
A. accessible popula	tion.
B. random sample.	
C. target population.	
D. volunteer subject	pool.
	Page 2 of

4. "There will be no significant difference between the scores on a measure of achievement of high-and low-anxious students" is a hypothesis written in form.

11. The main advantage of random sampling is that the sample is more likely to	
B. include the correct number of subjects.	
C. yield generalizable results for the study.	
D. vield insignificant research findings for the study.	
C. experimental group.	
12 Systematic compline is more communicate when	
12. Systematic sampling is more appropriate when	
A. a sample must be selected from a nonperiodic list.	
B. a sample must be selected from a periodic list.	
C. the expected difference between groups is small.	
D. the target population is heterogeneous.	
13. A researcher divided subjects into two groups according to gender and then selected member	S
from each group for her sample. What sampling method was the researcher using?	
A. Cluster	
B. Random	
C. Stratified	
D. Systematic	
D. Systematic	
Totalified in 14	
14. A study that uses intact groups when it is not possible to randomly assign participants to the	2
groups is called a(n) study.	
A. causal comparative	
B. correlational	
C. experimental	
D. quasi experimental	
15. Rich is conducting a survey of student opinion of the dining hall at his university. Rich decided	1
to conduct his survey by using every tenth name on the registrar's alphabetical list of al	
students at his school. The type of sampling technique that Rich is using is sampling.	
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students at his school. The type of sampling technique that Rich is using is sampling. A. cluster	
students at his school. The type of sampling technique that Rich is using is sampling. A. cluster B. random	
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- 18. In a study of the effects of alcohol on driving performance, driving performance would be the

 A. control group.
 B. dependent variable.
 C. experimental group.
 D. independent variable.
 - 19. Which of the following does not support the need for research proposal? the study
 - A. Clues to every aspect of the results of
 - B. Evaluation of the proposed plan for
 - C. Prevention of avoidable mistakes during
 - D. Realistic time schedule for
 - 20. The various conditions beyond the control of the researcher that may place restrictions on the conclusions or applications of the findings is referred in educational research as
 - A. confounding.
 - B. delimitations.
 - C. limitations.
 - D. triangulation.

MAY 2022 EBS 339J INTRODUCTION TO RESEARCH METHODS IN EDUCATION 1 HOUR 20 MINUTES

Candidate's Index	Number
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Signature:	

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9:40 AM - 11:00 PM

SECTION B

· Answer ALL the questions in this Section.

1. Discuss any **four** of the major types of probability sampling used in educational research. **20 marks**

2.

- a. Write three researchable problems and identify their independent and dependent variables.

 12 marks
- b. Explain two ways by which individuals acquire knowledge or get to know. 8 marks

3.

- a. Classify each of the following sampling processes as either random, systematic, stratified,
 or cluster:
 - i. In a large school district, all teachers from two buildings are interviewed to determine whether they believe the students have less homework to do now than in previous years.
 - ii. Every seventh customer entering a shopping mall is asked to select her or his favourite store.
 - iii. Nursing supervisors are selected using random numbers to determine annual salaries.
 - iv. Every 100th hamburger manufactured is checked to determine its fat content.
 - v. Mail carriers of a large city are divided into four groups according to gender (male or female) and according to whether they walk or ride on their routes. Then 10 are selected from each group and interviewed to determine whether they have been bitten by a dog in the last year.

b. Under what circumstances would you recommend a:

8marks

- i. probability sampling?
- ii. non-probability sampling?
- iii. stratified sampling?
- iv. cluster sample?

c. State one benefit of reviewing literature in a study.

2 marks

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