DECEMBER 2023 EBS 339 INTRODUCTION TO RESEARCH METHODS IN EDUCATION 1 HOUR 30 MINUTES

Candidate's Index Number	
Signature:	

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-SECOND SEMESTER EXAMINATION, DECEMBER 2023

20TH DECEMBER 2023

INTRODUCTION TO RESEARCH METHODS IN EDUCATION

2:00 PM - 2:30 PM

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

SECTION A (20 MARKS)

Answer ALL the questions in this Section.

Items 1 to 20 are stems followed by four options lettered A to D. Read each item carefully and circle the letter of the correct or best option.

- 1. How do you judge the depth of any research? By the
 - A. research duration.
 - B. research objectives.
 - C. research title.
 - D. total expenditure on research.
- 2. Which of the following is the **most appropriate** reason for reviewing the existing literature?
 - A. Because without it you could never reach the required word count
 - B. To find out what is already known about your area of interest.
 - C. To help in your general studies.
 - D. To make sure you have a long list of references.
- 3. Which type of research focuses on exploring and understanding complex social phenomena through in-depth interviews and observations?
 - A. Experimental
 - B. Observational
 - C. Qualitative
 - D. Quantitative

4.	In this type of research, the researcher directly manipulates one or more independent variables to observe their effects on a dependent variable. A. Correlational B. Descriptive C. Experimental D. Historical
5.	 Which of the following depicts the primary focus of action research? A. Conducting experiments in a laboratory setting B. Generating theoretical knowledge C. Historical analysis D. Solving practical problems and improving practices
6.	In a study examining the impact of different teaching methods on student performance, the type of teaching method (Method A, Method B, Method C) is an example of which type of variable? A. Categorical B. Continuous C. Dependent D. Independent
7.	A research problem should be specific to
8.	Which of the following is an example of a discrete variable in a research study?

- - A. Height of students in years
 - B. Number of students in a classroom
 - C. Temperature in degrees Celsius
 - D. Weight in kilograms
- What is the key characteristic of purposive sampling in research?
 - A. It includes every element in the population of interest.
 - B. It is the same as stratified sampling.
 - C. It selects participants randomly from a population of different characteristics.
 - D. Participants are chosen based on specific criteria or characteristics.
- 10. A researcher is examining the relationship between the type of exercise (aerobic, strength training, or flexibility) and changes in participants' heart rates. The type of exercise is an example of which type of variable?
 - A. Dependent
 - B. Independent
 - C. Intervening
 - D. Mediating
- 11. When formulating a research problem, it is important to ensure that it is
 - A. based on the researcher's personal interests.
 - B. broad and all-encompassing.
 - C. feasible and researchable.
 - D. kept secret until the research is complete.

12.	The variable blood pressure (e.g., low, normal, high) is an example of which type of variable? A. Categorical B. Continuous C. Nominal D. Ordinal
13.	Which of the following is not a characteristic of a good research problem statement? It is
	 A. relevant to the field of study. B. researchable and can be addressed through data collection. C. specific and clearly defined. D. too broad and covers multiple research questions.
14.	 Which of the following is a common source of research problems? A. Data analysis techniques B. Existing research literature C. Personal opinions and biases D. The research methods chosen
15.	 Which of the following is an example of a research problem statement? A. Are you addicted to social media and celebrities? B. Facebook, Twitter, and Instagram are popular social media platforms. C. What is the impact of social media usage on teenagers' mental health? D. What is the name given to people who use social media in Ghana?
16.	What is the most significant reason for conducting a literature review when defining a research problem? To
17.	In a research study, a random sample of 150 students is selected from each grade level (1st grade, 2nd grade, 3rd grade) in a school. What type of sampling is most appropriate to use? A. Convenience B. Simple random C. Snowball D. Stratified
18.	A researcher is studying the impact of a new drug on blood pressure. The null hypothesis for this study would likely be the new drug will
19.	When conducting hypothesis testing, if the p-value is less than the level of significance (alpha), what is the typical course of action? hypothesis A. Accept the null B. Accept the research C. Reject the null D. Reject the research

- 20. Which of the following statements is true regarding a literature review? It
 - A. does not require referencing another research.
 - B. helps build a theoretical framework for the research.
 - C. is typically the shortest section of a research paper.
 - D. presents the researcher's original study findings.