



**AMREF INTERNATIONAL UNIVERSITY
SCHOOL OF MEDICAL SCIENCES
DEPARTMENT OF NURSING & MIDWIFERY SCIENCES
End of Semester April 2025 Examinations**

COURSE CODE AND TITLE: BSN 316 -Research Methods

DATE: 17-APRIL-2025

Duration: 2 HOURS

Start: 2:00 PM

Finish: 4:00 PM

INSTRUCTIONS

1. This exam is out of 70 marks
2. This Examination comprises THREE Sections. Section I: Multiple Choice Questions (20 marks) Section II: Short Answer Questions (30 marks) and Section III: Long Answer Questions (20 marks)
3. Answer ALL Questions.
4. Do Not write anything on the question paper -use the back of your booklet for rough work if need be.

SECTION -I: MULTIPLE CHOICE QUESTIONS (MCQs)**(20 MARKS):**

1. If an investigator intends to study the effect of massage on stress and pain, which type of research approach needs to be chosen by the investigator?
 - A. Basic research
 - B. Qualitative research
 - C. Applied research
 - D. Quantitative research
2. Research hypotheses are: -
 - A. Belief about any natural phenomenon
 - B. Formulated prior to a review of the literature
 - C. Statements of predicted relationships between variables
 - D. Stated such that they can be confirmed or refuted
3. As a nurse, you know that the study entitled “Knowledge and practice of Staff Nurses in preventing needle prick injuries at Kenyatta National hospital is classified as: -
 - A. Basic Research
 - B. Historical Research
 - C. Descriptive Research
 - D. Experimental Research
4. Research undertaken for knowledge sake is: -
 - A. Pure Research
 - B. Action Research
 - C. Pilot study
 - D. Survey
5. Research conducted to find solution for an immediate problem is; -
 - A. Fundamental Research
 - B. Analytical Research
 - C. Survey
 - D. Action Research
6. A variable which is not part of study, but may have effect on the measurement of the study variables: -
 - A. Independent variable
 - B. Extraneous variable
 - C. Dependent variable
 - D. Complex variable
7. The independent variable refers to one of the following: -
 - A. Result
 - B. Cause
 - C. Effect
 - D. Output
8. Reasoning from general to particular “is called; -

- A. Induction
 - B. Deduction
 - C. Observation
 - D. Experience
9. When the topics of research are very sensitive, which of the following rights of individual participants must be ensured when the researcher cannot link the information given by the respondent from the source of the information?
- A. Confidentiality
 - B. Anonymity
 - C. Virility
 - D. Volunteerism
10. The roles demonstrated by a nurse who reads research articles and incorporates findings into nursing practice is: -
- A. Consumer
 - B. Primary investigator
 - C. Collaborator
 - D. Producer
11. Which of the following category do the study about the sociodemographic profile of nursing students and their risk for depression belong?
- A. Prescription
 - B. Exploration
 - C. Prediction and control
 - D. Explanation
12. This is not a null hypothesis: -
- A. There is no relationship between the level of knowledge and practice of prevention of needle prick injuries
 - B. There is no relationship between the practice of prevention of needle prick injuries and the sociodemographic profile of staff nurses
 - C. There is a significant relationship between the knowledge and sociodemographic profile of staff nurses
13. The following would correspond to the Plan in Nursing Process: -
- A. Select design plan
 - B. Report findings
 - C. Implement planned study
 - D. Change the objectives after implementation
14. The definition of sampling is: -
- A. Taking certain areas of the population dividing the areas into sections
 - B. Process of selecting a portion of the population to represent the entire population
 - C. Using every Nth name from the list of participants
 - D. Taking any sample as long as it comes up with the quota

15. A nursing instructor is teaching nursing students about principles of ethics in health care, and she tells them that the utmost important principle to observe while taking care of patient is doing no harm. The principle of Ethics she described here: -
- A. Beneficence
 - B. Justice
 - C. Non-maleficence
 - D. Respect for autonomy
 - E. Veracity
16. The type of variable which is influenced the intervention of the researcher is termed as: -
- A. Dependent
 - B. Independent
 - C. Categorical
 - D. Continuous
17. Snapshot of population at a point of time is: -
- A. Case report
 - B. Cross-sectional
 - C. Cohort
 - D. Quasi-experimental
18. The variable being tested & measured in a scientific experiment is: -
- A. Dependent
 - B. Independent
 - C. Control
 - D. Intervening
19. When should a hypothesis be developed by the researcher during the research process; -
- A. Before development of the research question.
 - B. After development of the research question.
 - C. After a research design is determined.
 - D. Before any statistical analysis.
20. A systematic step-by-step Procedure following logical process of reasoning” called; -
- A. Experiment
 - B. Observation
 - C. Deduction
 - D. Scientific method

SECTION II: SHORT ANSWER QUESTIONS (SAQs)**(30 MARKS):**

1. Explain three types of analytical observational studies (6 marks)
2. Outline three random and three non-random sampling techniques (6 marks)
3. Explain three (3) differences between quantitative and qualitative research methods (6 marks).
4. Describe four (4) importance of research in the nursing field (4 marks).
5. Outline four (4) ethical rules in medical research (4 marks).
6. A study was performed to evaluate the effectiveness of Music Therapy on relieving Anxiety among Psychiatric patients with Bipolar disorder.
 - i. Formulate the broad objective for the above research topic (2 marks).
 - ii. Mention the independent and dependent variables of the above research topic (2 marks)

SECTION III: LONG ANSWER QUESTIONS (LAQs)**(20 MARKS)**

1. Diabetes has disproportionately burdened the low and middle income countries where awareness and detection rates remain very low.
 - i. Formulate a research topic to address the burden of Diabetes in Kenya (3 marks).
 - ii. Develop five (5) specific research objectives for your topic (10 marks).
 - iii. Outline the conceptual framework for this study (5 marks).
 - iv. Write the appropriate research design of this study (2 marks).