



AMREF INTERNATIONAL UNIVERSITY

SCHOOL OF MEDICAL SCIENCES

DEPARTMENT OF NURSING & MIDWIFERY SCIENCES

BACHELOR NURSING SCIENCE

EXAMINATION- AUGUST 2026

BSM 315 /BSN 316: Research

DATE: 5TH AUGUST 2026

DURATION: 2 HOURS START:09AM FINISH: 11AM

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
5. Use the back of your booklet for rough work if need be
6. Write your University Registration Number correctly on all pages of the booklet(s) used

SECTION I: MULTIPLE CHOICE QUESTIONS (20 MARKS)

1. Randomization, manipulation, and control are characteristics of:
 - A. Quasi-experimental research design
 - B. True experimental research design
 - C. Non-experimental research design
 - D. Observational research design
2. Qualitative studies are described as:
 - A. Formal
 - B. Systematic
 - C. Objective
 - D. Subjective
3. Outcome variable is also referred to as:
 - A. Response variable
 - B. Predictor variable
 - C. Independent variable
 - D. Dummy variable
4. Mean, mode, and median are:
 - A. Measures of association
 - B. Measures of morbidity
 - C. Measures of central tendency
 - D. Measures of dispersion
5. The study of the lived experience of the study participants is known as:
 - A. Phenomenology
 - B. Ethnography
 - C. Grounded theory
 - D. Ethno-methodology
6. A histogram is characteristically constituted of joined bars because it displays:
 - A. A categorical variable
 - B. A discrete variable
 - C. A continuous variable
 - D. A dummy variable
7. A sample mean of the research findings is always presented with:
 - A. Mode
 - B. Standard deviation
 - C. Median
 - D. Range

8. Simple random sampling in research designs implies:
- A. Equal chance and reliability
 - B. Specificity and sensitivity
 - C. Equal independent chance of inclusion
 - D. Equal chance and validity
9. Research hypotheses are supposed to be:
- A. Accepted or rejected
 - B. Approved or disapproved
 - C. Correct or incorrect
 - D. Known or unknown
10. The application of study findings to similar study settings is known as:
- A. Generalizability
 - B. Reliability
 - C. Proposition
 - D. Supposition
11. A frequency polygon is also known as:
- A. Histogram
 - B. Bar graph
 - C. Ogive
 - D. Line graph
12. Inductive reasoning is largely applied in:
- A. Quantitative studies
 - B. Surveys
 - C. Census
 - D. Qualitative studies
13. The external validity of study findings implies:
- A. Reliability of study findings
 - B. Generalizability of the study findings
 - C. Proposition of study findings
 - D. Supposition of study findings
14. Standard deviation, range, variance, and semi-quartile range are:
- A. Measures of association
 - B. Measures of morbidity
 - C. Measures of central tendency
 - D. Measures of dispersion

15. Deductive reasoning is largely applied in:
- A. Quantitative studies
 - B. Surveys
 - C. Census
 - D. Qualitative studies
16. True class limits are considered in the construction of a:
- A. Histogram
 - B. Bar graph
 - C. Pie chart
 - D. Diagram
17. Which of the following is the class width of a class interval of 20-29 years of age of the study participants?
- A. 11
 - B. 10
 - C. 24.5
 - D. 9
18. Case control, and cohort are examples of:
- A. True experimental studies
 - B. Quasi-experimental studies
 - C. Interventional studies
 - D. Observational studies
19. An inference in a statistical analysis refers to:
- A. Describing the outcome
 - B. Determining an association
 - C. Generating hypothesis
 - D. Narrative summaries
20. Closeness of a measurement value to its true value is referred to as:
- A. External validity
 - B. Internal validity
 - C. Accuracy in research
 - D. Reliability

SECTION II: SHORT ANSWER QUESTIONS (30 MARKS)

1. Define the following terms **(6 marks)**
 - a. Population **(1 mark)**
 - b. Research **(1 mark)**
 - c. Subject **(1 mark)**
 - d. Sampling **(1 mark)**
 - e. Hypothesis **(1 mark)**
 - f. Survey **(1 mark)**
2. Describe three (3) types of non-experimental research designs **(6 marks)**
3. Describe three (3) characteristics of qualitative research **(6 marks)**
4. Describe three (3) dimensions of conducting a quantitative study **(6 marks)**
5. Outline the process of systematic random sampling **(6 marks)**

SECTION III: LONG ANSWER QUESTIONS (20 MARKS)

1. You are expected to conduct scientific research as a partial requirement for the award of the Degree of Bachelor of Science in Nursing. Using the four phases of the research process, describe the eleven steps you would apply in your study **(20 marks)**