

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

THIRD YEAR EXAMINATION FOR THE AWARD OF DEGREE
OF BACHELOR OF SCIENCE IN NURSING

NURS 394: RESEARCH METHODS

STREAMS:Y 3S1

TIME: 3 HOURS

DAY/DATE: THURSDAY 7/12/2017

8.30 A.M - 11.30 A.M.

INSTRUCTIONS:

- Do not write anything on the question paper.
- Mobile phones and any other reference materials are NOT allowed in the examination room.
- The paper has THREE sections. Answer **ALL** Questions.
- All your Answers for Section A (MCQs) should be on the first page of the answer booklet.
- Number ALL your answers and indicate the order of appearance in the space provided in the cover page of the Examination answer booklet.
- Write your answers legibly and use your time wisely

PART A: MULTIPLE CHOICE QUESTIONS [20 MARKS]

1. What should be included in “scholarly literature”?
 - A. Research reports reported in primary sources only
 - B. Conceptual theoretical literature from primary sources only
 - C. Published and unpublished reports of research
 - D. Theoretical literature from primary sources only
2. Reviews of the literature are conducted for PURPOSES OF RESEARCH as well as for the CONSUMER OF RESEARCH. How are these reviews similar?
 - A. Amount of literature required to be reviewed
 - B. Degree of critical reading required
 - C. Number of articles reviewed
 - D. Purpose of the review
3. Which are the characteristics of the literature review required for a quantitative research study?
 - A. The review is exhaustive and must include all studies conducted in the area.
 - B. Doctoral dissertations and masters’ these are excellent sources of information
 - C. Computer-accessed materials are not acceptable
 - D. Primary sources are not as important as secondary sources

4. Which of the following is an example of a primary source in a research study?
 - A. A published commentary on the findings of another study
 - B. A doctoral dissertation that critiques all research in the area of attention deficit disorder
 - C. A textbook of medical-surgical nursing
 - D. A journal article about a study that used large, previously unpublished databases generated by the United States census

5. What is the best source to use when conducting a level 1 systematic meta-analysis of the literature?
 - A. An electronic database
 - B. Doctoral dissertations
 - C. The Cochrane Statistical Methods
 - D. Masters dissertations

6. What is a characteristic of an audio recording of an unpublished research study reported at a professional conference?
 - A. Databased literature
 - B. Secondary Sources
 - C. Are more difficult to analyze than written reports
 - D. Are not useful because they are not published

7. What is the first step in the qualitative research process?
 - A. Data Analysis
 - B. Sample
 - C. Review of literature
 - D. Study design

8. Which mode of clinical application for qualitative research is considered to be the sharing of qualitative findings with the patient?
 - A. Insight or empathy
 - B. Anticipatory guidance
 - C. Assessment of status or progress
 - D. Coaching

9. Which research process steps may not be noted in an article's abstract?
 - A. Identifying the problem
 - B. Study purpose
 - C. Literature review
 - D. Design

10. What doesn't a level-of-evidence model use to evaluate the strength of a research study and its findings?
- A. Creativity
 - B. Quality
 - C. Quantity
 - D. Consistency
11. ALL are the critiquing criteria used to judge the worth of a research study EXCEPT:
- A. Measures
 - B. Objectives
 - C. Standards
 - D. Effectiveness
12. Which statement best describes qualitative research?
- A. Studies are conducted in natural settings
 - B. Data are collected from large number of subjects
 - C. Data collected tend to be numeric
 - D. The research design is systematic and objective
13. What does a critique of a research study always include?
- Determining its strengths and weaknesses
 - Researching similar studies
 - Using peer reviewers
 - Explaining your own personal opinions
14. For which of the following research questions would qualitative methods be most appropriate?
- A. Which pain medications decrease the need for sleep medication in elderly patients?
 - B. What is the meaning of health for migrant farm-worker women?
 - C. Under what conditions does a decubitus ulcer heal most quickly?
 - D. How does frequency of medication administration impact the degree of pain experienced following knee replacement surgery?
15. Which of the following phrases would be found in a report of a qualitative study?
- A. "The hypothesis of this study is?"
 - B. "Perceived pain was measured using the Abbott pain scale?"
 - C. "The control group received no instruction?"
 - D. "Subjects were asked to relate their perceptions of pain?"
16. Which of the following phrases would be found in a report of a qualitative study?
- A. "A convenience sample was chosen?"
 - B. "The phenomenon studied was?"
 - C. "Data were analyzed and interpreted?"
 - D. "Researchers sought to explore the meaning of the hospital experience?"

17. Which of the following hypothesis are indicative of an experimental research design?
- A. Frequent irrigation of Foley catheters will be positively related to urinary tract infections.
 - B. The incidence of urinary tract infections will be high in irrigated Foley catheters.
 - C. Frequent irrigation of Foley catheters is associated with urinary tract infections
 - D. The incidence of urinary tract infections will not differ between patients with or without Foley catheters.
18. Which statement is not part of the criteria used to judge the soundness of a stated research question?
- A. A relationship between two or more variables
 - B. An operational definition of each variable
 - C. The nature of the population being tested
 - D. The possibility of empirical testing
19. Which criteria is used to determine testability of a hypothesis?
- A. Use of a quantifiable words such as greater than or less than
 - B. A hypothesis stated in such a way that it cannot be clearly supported or not supported
 - C. The use of value-laden words in a hypothesis
 - D. Data-collection efforts that prove the validity of the hypothesis
20. What are the advantages of using directional hypothesis?
- A. The indication of the use of a theory base to derive the hypothesis
 - B. The lack of a specific theoretical frame of reference
 - C. Ensurance that findings will be generalizable
 - D. The indication of a nonbiased selection of subjects

PART B: SHORT ANSWER QUESTIONS [60 MARKS]

1. Explain four threats to internal validity. [8 Marks]
2. State three feature of a true experiment. [3 Marks]
3. Distinguish between descriptive and comparative study designs. [4 Marks]
4. Define the following terms:
- (i) Variable [1 Mark]
 - (ii) Reliability [1 Mark]
 - (iii) Longitudinal design [1 Mark]
 - (iv) Ethnography [1 Mark]
 - (v) Triangulation [1 Mark]
5. “What is the incidence of patient falls in hospitalized surgical patients?”
- A. State the population of interest? [1 Mark]
 - B. What is the independent variable? [1 Mark]
 - C. What is the dependent variable? [1 Mark]
 - D. Formulate two hypotheses. [2 Marks]

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6. A researcher wants to find the demographic characteristics of new mothers-to-be in their health region. They develop a questionnaire to give to all participants attending antenatal classes in their hospital and collect them each day till they have 100 completed questionnaires.
- (i) State the type of sampling method used here [1 Mark]
 - (ii) State two objectives of this study [2 Marks]
 - (iii) State two study questions for this study. [2 Marks]
7. State three ways that a researcher can use to distribute and collect questionnaires to gather data. [3 Marks]
8. You are interested in conducting a trial (pilot study) of an anger management program for young adolescent men.
- (i) State five advantages of a pilot study. [5 Marks]
 - (ii) State six types of information that you would look for. [6 Marks]
 - (iii) Explain the method you would use to get the sample. [8 Marks]
 - (iv) Describe how you would obtain data for this study. [8 Marks]
9. You are conducting a trial of an exercise program for residents in an aged-care facility in order to reduce injuries from fall. Your research is quasi-experimental, and you are comparing the incidence of falls in a control group. Listed below are the types of data you collect. For each one, indicate what scale of measurement it represents, and what test might be used to compare the two groups: [5 Marks]

Variable/Data	Scale	Test
Age in years		
Gender		
Educational level		
Weight in Kgs		
No. of falls		

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