

**FACULTY OF HEALTH SCIENCES
DEPARTMENT OF NURSING SCIENCE**



PROGRAMME : M.CUR

SUBJECT : RESEARCH METHODOLOGY
MODULE 1: INTRODUCTION TO NURSING RESEARCH
MODULE 2: THE RESEARCH PROCESS: INITIAL STEPS AND DESIGN

CODE : MRMV118

DATE : NOVEMBER EXAMINATION 2016

DURATION : 3 HOURS

WEIGHT : 50:50

TOTAL MARKS : 100 MARKS

EXAMINER : DR CHARLENE DOWNING
:

MODERATOR : PROF JEANETTE MARITZ (UNISA)

NUMBER OF PAGES : THIS PAPER CONSISTS OF FIVE (5) PAGES

INSTRUCTIONS : NONE

REQUIREMENTS : NONE

INSTRUCTIONS TO CANDIDATES:

ANSWER ALL QUESTIONS.
IN YOUR OWN INTEREST, WRITE LEGIBLY.

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QUESTION 1

Read the following part of an abstract and answer the questions related to the research:

International studies report that nurse bullying is a common occurrence. The intensive care unit (ICU) is known for its high stress levels, one factor thought to increase bullying. No studies were found that investigate bullying in this population (Ganz, Levy, Khalaila, Arad, Bennaroch, Kolpak, Drori, Benbinisty & Raanan, 2016:505-511).

- 1.1 Formulate the research purpose/s for this study. (2)
- 1.2 Formulate two (2) research objectives. (4)
- 1.3 State the research design and research method you would use. (2)
- 1.4 Discuss the reasons for choosing this design and method. (4)
- 1.5 Debate the ethical issues that need to be considered in conducting this study under the following headings:
 - 1.5.1 Right to self-determination. (5)
 - 1.5.2 Right to privacy, anonymity and confidentiality and fair treatment. (8)

***[25]**

QUESTION 2

- 2.1 Differentiate between scientific theory and tentative theory. (2)
- 2.2 What is the role of a literature review in a quantitative research design? (9)

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- 2.3 Define the levels of evidence-based practice and provide examples of application to practice:
- 2.3.1 Description. (2)
- 2.3.2 Explanation. (2)
- 2.3.3 Prediction. (2)
- 2.3.4 Control. (2)
- 2.4 Describe your understanding of how a cross-sectional research method is different from a longitudinal research method. Use examples to motivate your answer. (6)
- [*25]**

QUESTION 3

- 3.1 Discuss and apply the following principles of trustworthiness in a qualitative study:
- 3.1.1 Credibility strategies. (7)
- 3.2.1 Transferability strategies. (5)
- 3.2 What is content and face validity in a quantitative study? (6)
- 3.3 Identify the levels of measurement:
- 3.3.1 Cholesterol levels. (1)
- 3.3.2 Professional qualifications. (1)
- 3.3.3 Individual ages of participants. (1)

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3.3.4 Classification of happiness in relationships. (1)

3.3.5 Monthly income of patients. (1)

3.4 What is treatment fidelity in research? (2)

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QUESTION 4

4.1 Reiners (2012:doi.org/10.4172/2167-1168.100119) illustrates the differences between Husserl and Heidegger phenomenological research design. Discuss your understanding of the critical differences of the above-mentioned philosophers. Using examples to illustrate your understanding is permissible (6)

4.2 What is evidence-based research in nursing? (4)

4.3 Identify the sampling method used in each of the following:

4.3.1 A researcher stands at the check-out counter of the town largest supermarket in a town and check for healthy items bought by shoppers. (1)

4.3.2 In conducting a survey, interviewers are instructed to single out 400 respondents, 160 urban and 240 rural, because the population of 12 000 is split 40/60% between urban and rural areas. (1)

4.3.3 A researcher selects a sample of 50 children by putting all the names of the pupils of the school written on pieces of paper in a tin and randomly drawing 50 tickets. (1)

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- 4.4 Identify the independent and dependent variables in the following hypotheses:
- 4.4.1 Nutritional status of patients is directly related to urban poverty and food insecurity. (3)
- 4.4.2 Caring, compassion and being present in the nurse-patient relationship are critical determinants of the healing process of any patient. (3)
- 4.4.3 The migration of SA nurses can be attributed to low pay, poor working conditions and failure to recognise the value of nurses and the importance of providing nurses with attractive career prospects. (4)
- 4.5 What is data triangulation in qualitative research? (2)
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QUESTION 1

Insight into nurse practitioners (NP) role transition can help NP students and new graduates in taking on new responsibilities in a changing and demanding healthcare context. The aim of the research was to explore the role transition from nurse to NP using the components of Meleis's Framework of Transition (Ter Maten-Speksnijder, Pool, Grypdonck, Meurs & van Staa, 2016:544-554).

Questions 1.1 to 1.3 must be answered in relation to the above scenario.

- 1.1 Which research design and approach would you use to conduct this study? Motivate your answer. (5)
- 1.2 Which sampling method would you use to select a sample for your study? Motivate your answer. (5)
- 1.3 Describe how you will ensure validity and reliability (if you selected a quantitative design), or how you will ensure trustworthiness (if you selected a qualitative design). (15)
- *[25]**

QUESTION 2

- 2.1 Describe the characteristics of qualitative and quantitative research with reference to the following aspects:
- 2.1.1 Philosophical orientation. (6)
- 2.1.2 Reasoning strategies. (4)
- 2.1.3 Practices of research as the researcher. (12)
- 2.2 What are the similarities and difference between a reference list and a bibliography? (3)
- *[25]**

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QUESTION 3

3.1 Dowling (2007:131-142) describes the role of bracketing in phenomenological research.

3.1.1 Define bracketing. (2)

3.1.2 Discuss the application of bracketing in phenomenological research. (3)

3.2 For each of the hypotheses (A, B and C) stated below:

3.2.1 Identify the dependent and independent variable(s) in the following hypotheses and

A: Oxygen inhalation by nasal cannula of up to 6L/min does not affect oral temperature measurement taken with an electronic thermometer. (3)

B: Laughter has been proven to enhance the productivity and personal satisfaction at the workplace. (3)

C: Absenteeism is higher in nursing students than radiography students. (2)

3.2.2 The type of hypothesis above. (3)

3.3 The purpose of the literature review in quantitative and qualitative research is different (Grove, Burns & Gray, 2013). Discuss the role of literature review in the above mentioned research. (9)

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QUESTION 4

Read the following details of a research article and answer the related questions:

TITLE OF STUDY: newly Graduated Nurses' Competence and Individual and Organizational factors:
A Multivariate Analysis

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OBJECTIVE: To study the relationships between newly graduated nurses' (NGNs') perceptions of their professional competence, and individual and organizational work-related factors.

4.1 Debate the ethical issues that need to be considered in conducting this study under the following headings:

4.1.1 Right to self-determination. (5)

4.1.2 Right to protection from harm and discomfort. (7)

4.1.3 Right to privacy, autonomy and confidentiality and fair treatment. (8)

4.2 Define and discuss the relevance of evidence-based research in nursing. (5)

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