



"Investing in Africa's Future"

COLLEGE OF HEALTH, AGRICULTURE AND NATURAL SCIENCES

DEPARTMENT OF PUBLIC HEALTH AND NURSING

NREM 500: RESEARCH METHODS

END OF FIRST SEMESTER SUPPLEMENTARY EXAMINATIONS

APRIL-MAY 2024

LECTURER: Dr S CHITUKU

DURATION: 3 HOURS

INSTRUCTIONS

Section is A Compulsory Answer **ALL** questions
Answer Three (3) questions in section B

THE MARK ALLOCATION FOR EACH QUESTION IS INDICATED AT
THE END OF THE QUESTION

CREDIT WILL BE GIVEN FOR LOGICAL, SYSTEMATIC AND NEAT
PRESENTATION

SECTION A

QUESTION 1

Question 1

- a. You are a Public Health Officer for Manicaland Province. The PMD reports an upsurge in the number of cases of communicable diseases. Identify one condition and fully attempt the following questions.
- i. What is research problem in this province? Define the main issues which you should pay attention to in formulating the research problem. . [5]
 - ii. What will be the purpose of the study [broad objective(s)] [2]
 - iii. iv. Explain and justify how you come up with sample size for the study. [5]
 - v. What design would you choose for your study and why? [3]
 - vi. Describe fully the ethical considerations in data collection of this study. [5]

Question 2

- a. "A researcher has to work as a judge and derive the truth and not as a lawyer who is only eager to prove his case in favour of his plaintiff." Discuss the statement pointing out the objectives of research. [10]
- b. How will you differentiate between descriptive statistics and inferential statistics? Describe the important statistical measures often used to summarize the survey/research data pointing out the situation when one measure is considered relatively appropriate in comparison to other measures. [10]

SECTION B

Question 3

Give a detailed analysis of 3 major historical atrocities in the history of health research ethics [20]

Question 4

- a. Describe in detail the steps involved in conducting a health research. [10]

- b. Discuss the advantages and disadvantages of true experimental and quasi experimental research designs. [10]

Question 5

- a) Discuss and differentiate between case control and case study research designs with examples [10]
- b) Discuss Randomised Control Trials (RCT) research design [10]

Question 6

What do you mean by research process? Explain its significance in the achievement of sustainable Public Health in your country. [20]