



*“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**

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## **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

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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]