

"Investing in Africa's Future"

COLLEGE OF HEALTH, AGRICULTURE AND NATURAL SCIENCES [CHANS] DEPARTMENT OF PUBLIC HEALTH AND NURSING [DPHN] NSHS 204: RESEARCH METHODS AND ETHICS IN HEALTH CARE

END OF SECOND SEMESTER EXAMINATIONS

APRIL/MAY 2025

LECTURER: MR. E. CHIKAKA

DURATION: 3 HOURS

INSTRUCTIONS

ANSWER **ALL** QUESTIONS IN SECTION A AND ANY **THREE** (3) FROM 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

EACH QUESTION SHOULD START ON A FRESH PAGE

SECT	TION A ANSWER ALL QUESTIONS	[40 marks]
QUESTION 1		
a.	Define research and explain its role in healthcare decision-making.	[4]
b.	Identify and describe the main steps of the research process.	[6]
QUES	STION 2	
a.	Differentiate between quantitative and qualitative research, providing a	n example of
	each in healthcare.	[4]
b.	Explain the importance of a literature review in health research.	[6]
QUES	STION 3	
Define research ethics and explain the three fundamental principles of the Belmont Report. [10]		
QUES	STION 4	
Discuss the role of Institutional Review Boards (IRBs) or Ethics Review Committees (ERCs)		
in health research. [10]		
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SECT	TION B ANSWER ANY THREE (3) QUESTIONS	[60 marks]
QUES	STION 5	
a. A hospital administrator wants to improve patient wait times in the outpatient department.		
i.	Formulate a research problem statement for this study.	[5]
ii.	Propose an appropriate research design and justify your choice.	[5]
iii.		
b.	List and explain any five (5) methods of analysing data that you have learn	nt [5]
QUES	STION 6	
A hospital administrator wants to evaluate patient satisfaction with outpatient services.		
i.	Design a data collection strategy using both qualitative and quantitative a	
ii.	Explain how a survey questionnaire can be constructed to collect reliable	data. [5]

the collected data. [5] iv. Discuss two statistical tests commonly used in healthcare research and their applications. [5] **QUESTION 7** a. Research ethics play a crucial role in healthcare management studies. i. Discuss the principles of research ethics and how they apply to management research. [5] ii. Explain the importance of confidentiality and data protection in health services research. [5] b. Ethical issues may arise at any point in the research process. Reflecting on the principles of ethics in health research, make a list of ethical issues that you think should be considered at each step in the eight-step research process model. [10] **QUESTION 8** a. A researcher is investigating the effects of lifestyle factors (diet, exercise, and smoking) on hypertension among adults in Zimbabwe. i. Identify the **independent and dependent variables** in this study. [5] ii. Which **sampling technique** would be most suitable for selecting participants? Justify your choice. [5] Explain one **statistical method** that could be used to analyze the data. iii. [5] b. "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

[5]

objectives of the research.

iii. Discuss the role of statistical software (such as SPSS, STATA, EXCEL) in analyzing