

AMREF INTERNATIONAL UNIVERSITY SCHOOL OF PUBLIC HEALTH DEPARTMENT OF HEALTH SYSTEMS MANAGEMENT AND DEVELOPMENT BSC HEALTH SYSTEMS MANAGEMENT AND DEVELOPMENT END OF JANUARY-APRIL 2023 SEMESTER EXAMINATIONS

UNIT CODE: HMD 221

UNIT NAME: Introduction to Research Methods

DATE: Wednesday 12th April 2023

TIME: TWO HOURS START: 4:15 PM-6:15 PM

INSTRUCTIONS:

1. ATTEMPT **ALL** QUESTIONS IN SECTION A AND ANY **TWO** QUESTIONS IN SECTION B.

2. Do not write on the question paper

SECTION A: SHORT ANSWER QUESTIONS. 6 QUESTIONS. ANSWER ALL. TOTAL 30 MARKS

1.	Below are a number of terms we have studied. Define each with a sentence or two.		
	Each defi	inition is worth 0.5 point.	(5Marks)
	i.	Internal validity	
	ii.	External validity	
	iii.	Target population	
	iv.	Negative correlation	
	V.	Scientific method	
	v. vi.	Research	
	vi. Vii.	Research methods	
	vii. Viii.	Generalizability	
	ix.	parsimonious	
	X.	probabilistic	
	Λ.	productistic	
2. Distinguish the following terms as used in research methods: descriptive			e relational and
	causal	on the following terms as used in research methods, descriptive	(6 marks)
3.		iate between the following terms as used in research methods.	` /
٥.	Different	i. Cross-sectional versus longitudinal	(3 marks)
		ii. Non-experimental versus non-experimental	
		iii. Attribute versus variable	
		iv. Independent versus dependent variable	
		v. Correlational versus causal	
4.	Compare	and contrast non-probability and probability sampling, give 3	statements for
••	each.	and contract non-productity and productity sampling, give s	
			(6marks)
5.	With the	help of diagram explain the terms deductive and inductive as u	` /
٠.	methods.	note of diagram emplant the totals deductive and made it ve as	
			(6Marks)
6.	Explain v	why studies with good internal validity often have poor externa	` /
•	an example of a situation where enhancing internal validity might impair external		
	validity	and the second s	(3marks)

SECTION B: LONG ANSWER QUESTIONS. 3 QUESTIONS. ANSWER ANY TWO. TOTAL 40 MARKS

7. A health system researcher is interested in the relationship between salaries and motivation. She states the following hypothesis in the description of her study:

Health workers who earn a higher salary are high performers and have high selfesteem than those who earn less salary.

- a) What are the variables in this study? (2 marks)
- b) What would be good names for the variables? Identify the independent variable(s) and dependent variable(s). (4 marks)
- c) Describe how each variable varies (i.e., whether the variable is categorical or continuous). Provide justification for why each variable varies the way you describe.

 (14 marks)
- 8. Critically appraise five research design methods that you can use in solving health-related issues. (20Marks)
- 9. Answer the following questions
 - a. Discuss 5 types of validity

(5marks)

b. Discuss 5 threats to internal

(5marks)

c. Explain why studies with good internal validity often have poor external validity? Give an example of a situation where enhancing internal validity might impair external validity.

(10marks)