



AMREF INTERNATIONAL UNIVERSITY
SCHOOL OF PUBLIC HEALTH
DEPARTMENT OF HEALTH SYSTEMS MANAGEMENT AND DEVELOPMENT
BACHELOR OF SCIENCE HEALTH SYSTEMS MANAGEMENT AND DEVELOPMENT
END OF SEMESTER EXAMINATION MAY - AUGUST 2024

HMD 221 INTRODUCTION TO RESEARCH METHODS

TIME: Two Hours

Date : **MONDAY 19TH AUGUST 2024**

TIME : Two (2) Hours

INSTRUCTIONS TO CANDIDATES

- 1) This exam is out of 70 marks
- 2) Section-A is compulsory with a total of 30 marks
- 3) Answer any TWO (2) questions in Section B with a total of 40 marks
- 4) Read carefully the additional instructions preceding each section.

SECTION A: ANSWER ALL QUESTIONS (TOTAL OF 30 MARKS)

1. Define the following terms as used in research. (3 marks)
 - a) Conceptual framework
 - b) Null hypothesis
 - c) Secondary data
2. State three major chapters of the research proposal document. (3 marks)
3. List three ethical considerations in research. (3 marks)
4. Highlight two differences between a research proposal and a research report. (4 marks)
5. Differentiate between justification and significance of the study. (4 marks)
6. Highlight any four instruments that you can use to collect data for your research project (4 marks)
7. Highlight five characteristics of a good specific objective in a research project (5 marks)
8. Define two characteristics of a good sample in quantitative research approach (4 marks)

SECTION B: ANSWER ANY TWO (2) QUESTIONS (40 MARKS)

9. a) Explain the following sampling methods:
 - i. Purposive sampling (3 marks)
 - ii. Stratified random sampling (3 marks)
 - iii. Systematic random sampling (3 marks)
 - iv. Snowball sampling (3 marks)
- b) Discuss two advantages and two disadvantages of any two of the data collection instruments of your choice (8 marks)
10. Describe the following research designs giving relevant examples:
 - a) Cohort-study design (5 marks)
 - b) Case-control study design (5 marks)
 - c) Experimental study design (5 marks)
 - d) Cross-sectional study design (5 marks)
11. a) Discuss any four measures used in descriptive data analysis. (8 marks)
- b) Explain two major branches of Inferential Statistics giving relevant examples. (8 marks)
- c) Describe Type I error and Type II error in research. (4 marks)