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(University of Choice)

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS 2023/2024 ACADEMIC YEAR

FIRST YEAR FIRST SEMESTER EXAMINATIONS FOR THE DEGREE OF DOCTORATE IN PUBLIC HEALTH NUTRITION

COURSE CODE: PHN 902
COURSE TITLE: QUANTITATIV E AND QUALITATIVE PROFICIENCY

DATE: 13/12/2023 **TIME:** 2.00-5.00PM

INSTRUCTIONS TO CANDIDATES

This examination contains 5 questions
Answer question one (COMPULSORY) and any other three questions.

TIME: 3Hours

INSTRUCTIONS

Answer question one (COMPULSORY) and any other three questions. TOTAL; 60mks

1. COVID 19 has necessitated various research studies to be conducted, as it is a new virus. Giving reasons for your choice, discuss the research design that would be appropriate to study the effect of COVID 19 on women's nutrition in the rural areas. (15mks)
2. As a Clinical Nutritionist at a local referral hospital, Wafula has been curious about the high incidence of hypertension among men aged 45 years and above. He decides to establish whether diet could be a contributing factor.
   a) Giving reasons, describe the study design that you will recommend for Wafula (10mks)
   b) Highlight the advantages and disadantages of the study design (5mks)
3. Using relevant illustrations, discuss the steps in developing a systematic review study (15mks)
4. a) Using examples in each case, differentiate between probability and non-probability sampling methods (6mks)
   b) You plan to conduct a household survey to determine the effect of COVID 19 on food security in Kakamega County, Using a population of 10,000 households, calculate the sample size at:
   i. 5% confidence interval and 95% confidence level
   ii. 5% confidence interval and 99% confidence level
   iii. 2% confidence interval and 99% confidence level (9mks)

5. Mary has collected qualitative data in the form of audio recordings. Explain hows he will handle the data until when she begins writing her report (15mk)