



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF HEALTH SCIENCES

UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE

PUBLIC HEALTH/COMMUNITY HEALTH AND DEVELOPMENT

3RD YEAR 1ST SEMESTER 2024/2025 ACADEMIC YEAR

MAIN/KISUMU/NBI CAMPUS

COURSE CODE:

HCB 1301

COURSE TITLE:

RESEARCH AND RESEARCH METHODS

EXAM VENUE: LAB 12

STREAM: BSc Public/ Comm. Hlth & Dev

DATE: 13/1/25

EXAM SESSION: 14-16.00 HRS

TIME: 2.00 HOURS

Instructions:

- 1. Answer all the questions in Section A and 2 questions in Section B.**
- 2. Candidates are advised not to write on the question paper.**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.**

SECTION A: Answer ALL questions in this section (30 marks)

1. What is an outcome variable (2 marks)
2. Explain two descriptive study designs (4 marks)
3. Explain the difference between the following:-
 - a) internal and external validity
 - b) prospective and retrospective study design
 - c) A cluster and stratification sampling(2 marks each)
4. Explain target and study populations with specific example. (4 marks)
5. What is the significance of a concept note? (4 marks)
6. What are the key activities to consider when preparing a budget for a study? (6 marks)
7. Why is the importance of a literature review? (4 marks)

SECTION B: Answer any 2 Questions in this section (40 marks each)

1. You are to evaluate a problem statement drafted by a student, explain what you will consider during the evaluation. (20 marks)
2. What is a cohort study design and explain its benefits and limitations? (20 marks)
3. A student did a study that shows that bed net use is associated with the malaria infection. Could you explain what could have gone wrong with the listed?
 - a) Study design
 - b) Sampling
 - c) Data collection
 - d) Data analyses(20 marks)
4. You are interested in conducting a research on the causes of malnutrition in children under five years in a given ward. Explain the content of your data collection tool (20 marks)