



# **GRETSA UNIVERSITY - THIKA**

**UNIVERSITY EXAMINATIONS**  
**January-April 2025 SEMESTER**

**DIPLOMA IN PUBLIC HEALTH**

**COURSE CODE: DIPH 045**

**COURSE TITLE:HEALTH RESEARCH METHODS**

**DATE:**

**TIME:**

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**INSTRUCTIONS TO CANDIDATES**

1. SECTION A IS **COMPULSORY**.
2. SECTION B: ANSWER ANY OTHER **THREE** QUESTIONS.
3. **DO NOT** WRITE ANYTHING ON THIS QUESTION PAPER AS IT WILL BE AN EXAM IRREGULARITY.
4. ALL ROUGH WORK SHOULD BE AT THE BACK OF YOUR ANSWER BOOKLET AND CROSSED OUT.

**CAUTION:** *All exam rooms are under CCTV surveillance during the examination period.*

## **SECTION A: COMPULSORY**

### **PART I: MULTIPLE CHOICES QUESTIONS [ONE MARK EACH]**

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1. A questionnaire is a tool used for:
  - A. Collecting qualitative data
  - B. Collecting quantitative data
  - C. Conducting experiments
  - D. Analyzing data
2. Which research design involves manipulating an independent variable to observe its effect on a dependent variable?
  - A. Experimental
  - B. Correlational
  - C. Case study
  - D. Survey
3. Informed consent is a principle that requires researchers to:
  - A. Keep participant data confidential
  - B. Obtain voluntary participation
  - C. Minimize harm to participants
  - D. All of the above
4. Informed consent is a principle that requires researchers to:
  - A. Keep participant data confidential
  - B. Obtain voluntary participation
  - C. Minimize harm to participants
  - D. All of the above
5. Which of the following is NOT a characteristic of qualitative research?
  - A. Focuses on understanding experiences and meanings
  - B. Relies on numerical data analysis
  - C. Uses open-ended questions
  - D. Provides rich insights into social phenomena

### **PART II: SHORT ANSWER QUESTIONS: ANSWER ALL QUESTIONS IN THIS SECTION**

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1. Describe the main components of any research worker. [3 marks]

2. Highlight any five characteristics of a well formulated research objective. [5 marks]
3. Discuss the ethical principles of beneficence, non-maleficence, autonomy, and justice. [4 marks]
4. Outline any five characteristics of a good research topic. [5 Marks]
5. State any three measures which can be put in place to ensure that the data collected in a research work is of high quality. [3 marks]
6. Highlight why it is important to clearly state and define the problem well before embarking on a research journey. [3 marks]
7. Explain the difference between qualitative and quantitative variables as used in research. [2 Marks]

**SECTION B: CHOOSE ANY TWO QUESTIONS**

**[40 MARKS]**

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**Question one.**

- a. Explain why is literature review important when preparing a proposal. [10 marks]
- b. Discuss any five sources of information that can be reviewed during literature review. [10 marks]

**Question two**

- a. Discuss the role of research in improving public health outcomes in any country. [10 marks]
- b. Whether a problem requires research depends on several conditions. Discuss these conditions. [10 marks]

**Question three**

- a. Explain any five importance of having a realistic budget in a research proposal. [10 marks]
- b. Describe any five types of sampling methods that a researcher can choose to use in conducting an investigation in a population. [10 Marks]

**Question four**

- a. Dicuss any five factors which may motivate a researcher into embarking in conducting research. [10 marks]
- b. Describe the different methods of data collection in public health research. [10 marks]