



(University of Choice)

**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)**

MAIN AND KAKUMA CAMPUSES

**UNIVERSITY EXAMINATIONS
2023/2024 ACADEMIC YEAR**

MAIN EXAMS

**THIRD AND FOURTH YEARS FIRST SEMESTER EXAMINATIONS
FOR THE DEGREES OF**

**BSC HUMAN NUTRITION AND DIETETICS AND BSC
HOSPITALITY AND INSTITUTIONAL MANAGEMENT**

COURSE CODE: HND 303 AND BHM 401

COURSE TITLE: RESEARCH METHODS

DATE: FRIDAY, 8TH DECEMBER, 2023

TIME: 300PM-500PM

INSTRUCTIONS TO CANDIDATES

There are three sections in the paper, answer questions in sections A and B.

1. **Section A** comprises of 10 multiple choice questions.
2. **Section B** comprises of 5 short answer questions.
3. **Section C** comprises of 3 essay type questions. Answer **ANY TWO** questions.

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

SECTION A: Answer all questions in this section (10 marks)

1. _____ is an/ are aim(s) of the ethical codes by which researchers operate.
 - A. Protection of participants from distress
 - B. Protection of the researcher from harm
 - C. Protection of organizations involved in research from legal consequences
 - D. All of the above

2. What is the purpose of doing research?
 - A. To identify problem
 - B. To find the solution
 - C. A and B above
 - D. None of the above

3. _____ method(s) can be applicable for collecting qualitative data.
 - A. Artifacts (Visual)
 - B. People
 - C. Media products (Textual, Visual and sensory)
 - D. All of these

4. What is our general advice with respect to the concept of do no harm?
 - A. So long as you did not set out to harm participants you have nothing to worry about.
 - B. Research that involves risk to participants should not be carried out by students.
 - C. There are typically no hazards in student research studies.
 - D. None of the above

5. The following is/ are associated with behavioral observation:
 - A. Non-verbal analysis
 - B. Linguistic analysis
 - C. Spatial analysis
 - D. All of the above

6. Uniting various qualitative and quantitative methods can be referred to as:
 - A. Coalesce
 - B. Triangulation
 - C. Bipartite
 - D. Impassive

7. Which of the following corresponds to our advice on ethical approval for your project?
 - A. Your study must be approved in full the first time you submit to the ethics committee, otherwise you will fail the project.
 - B. You must wait for ethics committee approval before beginning data collection.
 - C. Pilot work does not need ethical approval.
 - D. All of the above.

8. The following are probability sampling techniques **EXCEPT**:
 - A. Snowball
 - B. Random
 - C. Cluster
 - D. Stratified

9. In a Focused Group Interview there are _____
 - A. One interviewer and one interviewee
 - B. More than one interviewer and one interviewee
 - C. One interviewer and more than one interviewee
 - D. More than one interviewer and more than one interviewee

10. Which of the following are forms of physical harm that might affect participants in a research project?
 - A. Accidental injury on equipment
 - B. Fatigue from activity
 - C. Altered consciousness or cognitive function due to abstention from normal activities such as eating
 - D. All of the above

SECTION B: This section consists of FIVE (5) questions of SIX (6) marks each. Answer all the questions (30 MARKS)

11. Studies often utilize volunteers. Explain how the use of volunteers affects population validity? (6 marks)
12. Outline 4 elements that are required for informed consent with human participants (6 marks).
13. Describe and compare the challenges involved in undertaking multi-disciplinary research and interdisciplinary research (6 marks)
14.
 - i. What does randomization mean? 3 marks
 - ii. In what kind of studies is randomization performed? (3 marks)

15. Giving examples, outline **SIX** roles of Institutional Ethic Review Committee (IERC)(6 marks)

SECTION C: This section consists of THREE questions of 15 MARKS each. Answer ANY TWO (30 MARKS).

16. An educational researcher is interested in the relationship between students' participation in two after school programs and academic achievement. She states the following hypothesis in the description of her study:

H.1. Children who participate in an after school program that emphasizes critical thinking skills will score higher on measures of academic achievement and self esteem than students who participate in a program that emphasizes rote memorization.

(i) What are the 2 possible variables in this study? (2 marks)

(ii) Identify ONE independent variable and ONE dependent variable. (2 marks)

(iii) Describe how each variable in (ii) above varies (i.e., whether the variable is categorical or continuous) (6 marks)

(iv) Provide justification for why each variable varies the way you describe in (iii) above? (5 marks)

17. In conducting a Focused Group discussion (FGD), there are procedures the researcher has to follow. Discuss how to run a successful FGD. (15 marks)

18. Assume you are carrying out a study at Kakamega County General Hospital on the effect of nutrition education and counseling on Diabetic patients. Explain the ethical principles you will observe during the study. (15 marks)

