



University of Choice
**MASINDE MULIRO UNIVERSITY OF SCIENCE AND
TECHNOLOGY
(MMUST)**
(MAIN CAMPUS)

**UNIVERSITY EXAMINATIONS
2023/2024 ACADEMIC YEAR**

**THIRD YEAR FIRST SEMESTER EXAMINATIONS
FOR THE BACHELOR OF SCIENCE
IN
EPIDEMIOLOGY AND BIostatISTICS**

**COURSE CODE: HEM 315
COURSE TITLE: OCCUPATIONAL EPIDEMIOLOGY**

DATE: 6.12.2023

TIME: 8.00-10.00 AM

INSTRUCTIONS: This paper consist of two sections (Section A and Section B)
2. Answer ALL the questions in section A and any TWO questions in section B

MMUST observes ZERO tolerance to examination
cheating

This Paper Consists of 2 Printed Pages. Please Turn Over

Section A: Attempt all questions in this section

1. Define the following terms as used in occupational Epidemiology
 - i. Analytical Epidemiology
 - ii. Safety
 - iii. Health
 - iv. Occupation
 - v. Work environment
2. Name the series of activities in exposure assessment (4 marks)
3. Highlight four ways of preventing frostbite (4 marks)
4. Describe the effect of poor environment to work performance (4 marks)
5. In tool selection the best tool should have the following characteristic which ones? (4 marks)
6. Name some of the important human dimensions in ergonomics and their importance (4 marks)
7. Determine four effects of radiation on living cells (4 marks)
8. State any four routes of entry of hazards into the human body (4 marks)
9. State four potential Effects of Fatigue on Work 4 marks
10. Explain epidemiologic designs that can be used in occupational epidemiology 5 marks

Section B: Attempt only 2 questions in this section

1. A) Discuss the effect of vibration as an occupational hazard (10 marks)
B) You are a research assistant in hospital setting how do you control infection or exposure to biological hazards? (5 marks)
2. A Evaluate the challenges for the development of occupational health and safety 15 marks
3. A) What are some of the ways in which the effects of chemical hazards are classified? (10 marks)
B) Discuss the difference between static muscle work and dynamic muscle activity? (5 marks)