



(University of Choice)

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY

(MMUST)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS

MAIN EXAM

2021/2022 ACADEMIC YEAR

FOURTH YEAR SECOND SEMESTER EXAMINATION

FOR THE DEGREE OF BACHELORS OF SCIENCE IN EPIDEMIOLOGY AND
BIOSTATISTICS

COURSE CODE: HEM 328

COURSE TITLE: CARDIOVASCULAR EPIDEMIOLOGY

DATE: 22/04/2022

TIME: 3.00-5.00 PM

INSTRUCTIONS:

- 1. This paper consists 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: SHORT ANSWER QUESTIONS (40 Marks)

Instructions

- The section has a total of Ten (10) short answer questions (SAQs), carrying a maximum of forty (40) marks total.
 - Answer all the questions
 - Write your answers on the provided university examination booklet
1. Explain the aspects of air pollution that are thought to increase CVD incidence and mortality (4 marks)
 2. Explain any four psychosocial risk factors associated with CVD
 3. Explain the four (4) major dietary patterns that have influence on CVDs
 4. List the WHO proposed interventions to control use of alcohol, already adopted by the Kenya government, that could positively impact on the occurrence of CVDs
 5. Name any four (4) variables included in and outcomes predicted by the Pooled Cohort Equations CVD Risk Assessment Tool
 6. Name any two (2) behavioural and any two biological risk factors for CVD
 7. State four (4) biological ways HIV increase risk of CVDs
 8. Name any four (4) non-modifiable risk factors for the CVDs
 9. What are the main steps a person can take to prevent heart attack and reduce their risk of developing heart disease?
 10. Explain the role of tier 1 (community health service delivery) with regards to CVD

LONG ANSWER QUESTIONS (30 Marks)

Instructions

- The section has TWO (2) Long Answer Questions (LAQs), totaling to a maximum of thirty (30) marks
 - Answer Any two questions
 - Write your answers on the provided university examination booklet
11. Discuss any five (5) cardiovascular diseases (15 marks)
 12. Analyse notable gender differences in CVD incidence, mortality, risk-factor profile and outcomes (15 marks)
 13. Explain the effect of urbanization and globalization on CVD (15 Marks)