(*University of Choice*)

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

(MAIN CAMPUSES)

UNIVERSITY EXAMINATIONS 2022/2023 ACADEMIC YEAR

FOR THE MASTER OF PUBLIC HEALTH

COURSE CODE: PHC 812

COURSE TITLE: EPIDEMIOLOGY OF NON COMMUNICABLE DISEASES

DATE: 15TH DECEMBER 2022   **TIME: 2.00PM-5.00PM**

INSTRUCTIONS TO CANDIDATES:

1. Write your University Registration Number on every booklet that you use.

2. Do not write your name on any papers you use.

3. Answer any four questions.

4. Each question contains a total of 25 marks.

5. The time allowed for this Paper is Three (3) hours.

6. Observe carefully further instructions on the cover of Answer Booklets.

LEQ 1

What is the Haddon's matrix in traumatic injuries? Outline and discuss the Haddon's basic strategies of control and prevention of non- communicable diseases (25 marks)

LEQ 2

The results of a 10 year cohort study smoking and lung cancer is shown below

Outcome after 10 years Start of study Developed lung cancer. Did not develop lung cancer

Total

1500 smokers 65 1435 1500

3,000 non smokers 20 2980 3000

Use the tabulated information to answer the following questions:

a) Describe how this cohort study was conducted? (10 marks)

b) What is the incidence of lung cancer among smokers? (5marks)

c) What is the incidence of lung cancer among non- smokers? (5 marks)

d) What is the association between smoking and development of lung cancer? (5marks)

LEQ 3

Physical inactivity and alcohol use are some of the risk factors for non –communicable diseases. Discuss for each which health problems are related and WHO approach to prevention and control of each of these two risk factors. (25 marks)

LEQ 4

Discuss Diabetes Mellitus in terms of definition and global situation, health implications, prevention and control (25 marks)

LEQ 5

About Coronavirus disease (COVID-19) and NCDs: Discuss the impact of Corona Virus pandemic on the prevention and treatment strategies for NCDs and the excess mortality in developed and developing countries (25 marks)