



# MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

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## University Examinations 2023/2024

FOURTH YEAR, SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR  
OF PUBLIC HEALTH

### HPP 3425: PREVENTION AND CONTROL OF NON-COMMUNICABLE DISEASES

DATE: APRIL 2024

TIME: 2 HOURS

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#### INSTRUCTIONS:

1. Answer Question ONE, and any other TWO
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#### QUESTION ONE (30 MARKS)

- a) With a few examples details the consideration that are utilized in setting up an observational study. (10 marks)
- b) Details the pyramid of study design from the weakest in statistical strength to the strongest in statistical strength. (10 marks)
- c) Describe the type of experimental design and the use in medicine. (10 marks)

#### QUESTION TWO:(20 MARKS)

- a) Lung cancer is one of the rise in Africa. Detail the risk factors, environmental and social factors that cause the increase in the incidence of this diseases and public health intervention that can reduce the incidence. (10 marks)
- b) Discuss the socioeconomic risk factors unique to gastric cancer and the intervention that can mitigate the prevalence of the disease. (10 marks)



**QUESTION THREE:(20 MARKS)**

- a) Discuss briefly the main classification of cardiovascular diseases. (5 marks)
- b) Explain the risk factors that can cause myocardial infarction. (5 marks)
- c) Discuss the intervention that can be instigated to reduce the incidence of the disease. (10 marks)

**QUESTION FOUR:(20 MARKS)**

- a) The incidence of diabetes mellitus is increasing; explain the factors that have led to the increase. (10 marks)
- b) Detail the classification of chronic obstructive diseases and the factors that lead to the above. (5 marks)
- c) In detail describe the role of the occupational health acts in ensuring worker's safety. (5 marks)

