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**MASINDE MULIRO UNIVERSITY OF  
SCIENCE AND TECHNOLOGY  
(MMUST)  
UNIVERSITY EXAMINATIONS  
MAIN EXAM**

**ACADEMIC YEAR: 2021/2022**

**FIRST YEAR FIRST SEMESTER EXAMINATION  
FOR PHD IN PUBLIC HEALTH NUTRITION**

**COURSE CODE: PHN 905**

**COURSE TITLE: ADVANCES IN NUTRITIONAL EPIDEMIOLOGY**

**DATE: 21 APRIL 2022**

**TIME 09.00 AM – 12.00 NOON**

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**General Instructions**

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.

**Answer any four questions**

- 1) You have been appointed as a Nutritional Epidemiologist in charge of developing nutritional products for a food manufacturing company. You have been requested to give a lecture to master students on ethical issues in research with emphasis on developing new food products. Describe fully the content of your lecture **(25 marks)**
  
- 2) Using appropriate examples describe the classification of epidemiological study designs **(25 marks)**
  
- 3) Compare and contrast micro nutrient supplementation and fortification in Nutrition science. Illustrate clearly those areas of convergence and divergence **(25 marks)**
  
- 4) The county governance plans to address the nutritional status of under-fives throughout the county. Sequentially describe the steps to design the survey, generate data and prepare a policy brief **(25 marks)**
  
- 5) Describe the roles of sponsors and investigators in the implementation of clinical trials in the development of new investigation products and illustrate the similarities and differences in their responsibilities **(25 marks)**