

**W1-2-60-1-6**

JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY

# **UNIVERSITY EXAMINATIONS 2018/2019**

EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN HUMAN NUTRITION AND DIETETICS AND BACHELOR OF SCIENCE IN FOOD SCIENCE AND NUTRITION

**AFN 2202 : NUTRITIONAL EPIDEMIOLOGY I**

DATE: APRIL 2019 TIME: 2 HOURS

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**INSTRUCTIONS:**

**ANSWER ALL QUESTIONS IN SECTION A AND ANY OTHER TWO QUESTIONS IN SECTION**

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**SECTION A**

1. Explain 3 primary prevention of cretinism [6 marks]
2. Explain three reasons why some people in the same village would die due to cholera outbreaks while others don’t die [6 marks]
3. Explain three importance of determining epidemiology of malaria in a refugee camp [6 marks]
4. Explain three levels in the development of pneumonia [6 marks]
5. Explain three underlying causes of malnutrition [5 marks]

**SECTION B**

6. (i) in a study of hypertensive male patient, 100 out of 189 hypertensive man died during a five year follow up period. Calculate the risk of death for these men. [6 marks]

(ii) Describe the three indicators for calculating incidences in a community. [6 marks]

(iii) Describe 4 differences between prevalence rates and incidence rates often times used to measure morbidity in population [8 marks]

7. Describe the causes of typhoid using the following models

(i) Analytical epidemiology [10 marks]

(ii) Descriptive epidemiology [10 marks]

8. Describe the categories of epidemiological study designs you would adopt while conducting epidemiological studies in the community. [20 marks]