



AMREF INTERNATIONAL UNIVERSITY
SCHOOL OF PUBLIC HEALTH

MASTER OF PUBLIC HEALTH

UNIVERSITY END OF SEMESTER EXAMINATIONS FOR MAY - AUGUST 2026

MAP 719: Applied Demography
DATE: 4TH August, 2026
TIME: 3 Hours **Start:** 5.30pm **Finish:** 8.30pm

INSTRUCTIONS

1. This exam is marked out of 100 marks
2. This Examination comprises TWO Sections
Section A: Compulsory Question (25 marks)
Section B: Long Answer Questions (75 marks)
3. All questions in Section A are compulsory and Answer any THREE questions in Section B
4. This online exam shall take 3 Hours
5. Ensure your web-camera is always on and directly positioned to capture you during the examination period
6. The AMIU VAS-Exams System has inbuilt integrity checks to detect and record cheating activities during examinations
7. Any aspect of cheating detected during and or after the exam administration will lead to disciplinary and nullification of your results
8. In case you have any clarification on the examination questions, call Prof Josephat Nyagero on Tel +254722301689, or the Head of Department on Tel +25472073449 and/ or The VAS Administrator on +254733682489/ +254728535496 on system related challenges
9. For adverse incidences please write an email to: amiu.examinations@amref.ac.ke with copy to the HoD

COMPULSORY

Question 1

- a) Discuss mortality as a component of applied demography and outline its relevance to public health **(6 marks)**
- b) Using examples, describe the limitations of demographic data in most developing countries and how they would be minimized **(7 marks)**
- c) Explain the relationship in the measurement of crude birth rate, general fertility and age specific fertility rate **(6 marks)**
- d) Describe the public health implications of rural – urban migration in Africa within the context of place of origin **(6 marks)**

ANSWER ANY THREE (3) QUESTIONS

Question 2

Using appropriate examples, discuss the rationale for applied demography as a discipline in the understanding of public health concerns of a country of your choice **(25 marks)**

Question 3

Discuss the child mortality trends for Sub-Saharan Africa and using a country of choice amplify four (4) selected pathways that the government has utilized to address the problem **(25 marks)**

Question 4

Discuss the trends and future of the Family Planning programme in Sub-Saharan Africa in light of the global developmental environment **(25 marks)**

Question 5

Discuss the demographic transition theory and explain its relevance to a country of your choice in sub-Saharan Africa **(25 marks)**



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SPECIAL/ SUPPLEMENTARY END OF SEMESTER EXAM FOR MAY – AUG 2026

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COMPULSORY

Question 1

- a) Discuss the uses of age – sex structure population pyramid as applied in the understanding of public health in contemporary world **(7 marks)**
- b) Discuss the relationship in the measurement of Total Fertility Rate, Gross Reproduction Rate, and Net Reproduction Rate **(6 marks)**
- c) Explain the six (6) elements of client satisfaction in the provision of public health services, preferably within settings of sub-Saharan Africa **(6 marks)**
- d) Describe the pathways to prevention of the four delays to public health care services within a context that you are familiar with **(6 marks)**

ANSWER ANY THREE (3) QUESTIONS

Question 2

Using appropriate examples, discuss the application of demographic correlates in explaining the health status of a population for a country in sub-Saharan Africa **(25 marks)**

Question 3

Using a country of choice, discuss how fertility patterns and trends can impact on the health and development status of the populations **(25 marks)**

Question 4

Using three (3) appropriate models, discuss the pathways that government have applied to address child mortality in a country of choice **(25 marks)**

Question 5

As a Director of Reproductive Health in your region, describe the process you would use formulate a population policy aimed at addressing rural – urban migration in a country of your choice **(25 marks)**