



MACHAKOS UNIVERSITY

University Examinations 2016/2017

SCHOOL OF HEALTH SCIENCES

DEPARTMENT OF PUBLIC HEALTH

THIRD YEAR FIRST SEMESTER EXAMINATION FOR DEGREE IN
BACHELOR OF SCIENCE (POPULATION HEALTH)

PPH 312: DYNAMICS OF DISEASES

DATE: 2/6/2017

TIME: 2:00 – 4:00 PM

INSTRUCTIONS

This paper consists of two sections A and B

Section A is compulsory

Section B choose any two (2) questions

Illustrate your answers with neat, clear and well labelled diagrams where appropriate

SECTION A (COMPULSORY)

QUESTION ONE (30 MARKS)

- a) Define the following terms giving relevant examples
 - i. Infectious diseases (1 mark)
 - ii. Communicable diseases (1 mark)
- b) It is said that Prevention is better than cure. Make three (3) comments based on the above statement (3 marks)
- c) State two (2) diarrhea diseases giving relevant examples as well as their control measures (4 marks)

- d) Diseases are very costly to manage in poor communities as compared to rich ones.
Identify three (3) reasons as to why this is the case (3 marks)
- e) Explain the effects of biological control on the spread of infectious infections (3 marks)
- f) Briefly outline the importance of vaccination especially to children under five years of age. (3 marks)
- g) Giving relevant examples, explain three strategies of disease prevention in a community (3 marks)
- h) Differentiate between Zoonotic and infectious diseases (3 marks)
- i) State importance of parasites in human population (3 marks)
- j) Explain three(3) cultures which frustrate the control of infectious diseases in a community (3 marks)

SECTION B: CHOOSE ANY TWO (2) QUESTIONS. EACH QUESTION IS 20 MARKS

QUESTION TWO (20 MARKS)

- a) Explains the impact of immunization program in Kenya (10 marks)
- b) Describe the challenges faced during the national immunization days in Kenya (10 marks)

QUESTION THREE (20 MARKS)

- a) Discuss how primary prevention can be achieved in a community (10 marks)
- b) Outline how epidemics can be controlled at local level (10 marks)

QUESTION FOUR (20 MARKS)

- a) Explain the influence of politics in control and prevention of infectious diseases (10 marks)
- b) Discuss how herd immunity is achieved in a community (10 marks)

QUESTION FIVE (20 MARKS)

- a) Explain in details physical control and prevention measures undertaken in waterborne diseases (15 marks)
- b) There are more women in Kenya suffering from HIV/AIDS today than men. Justify the statement above (5 marks)