

Technical University of Mombasa

Faculty of Applied and Health Sciences DEPARTMENT OF ENVIRONMENT AND HEALTH SCIENCES

DIPLOMA IN COMMUNITY HEALTH AND HIV MANAGEMENT (DCH 12)

APH 2303 : PREVENTION OF COMMUNICABLE DISEASES

SUPPLEMENTARY/SPECIAL: EXAMINATIONS

SERIES: MARCH 2014

TIME: 2 HOURS

INSTRUCTIONS:

You should have the following for this paper

- Answer booklet

This paper consists of *FIVE* questions.

Answer Question **ONE** (compulsory) and any other **TWO** questions

QUESTION ONE

a)	Differentiate between the following terms	
	(i) Infectivity and infectiousness of a pathogen.	(2 marks)
	(ii) Disease extinction and disease elimination	(2 marks)
b)	Briefly describe any four types of disease carriers	(4 marks)
c)	Briefly explain the following terms	
	(i) Disease incidences	(1 mark)
	(ii) Endemic disease	(1 mark)
	(iii) Disease cluster	(1 mark)
d)	(i) Distinguish between a primary pathogen and an opportunistic pathogen	en (2 marks)
	(ii) State two factors that may cause a host to be susceptible to a particular	pathogen
		(2
	marks)	
e)	Briefly describe two methods used in control of communicable diseases	(4 marks)
f)	Outline four factors that cause changes in disease patterns in the world today.	,
g)	sing relevant, list the main components of the chain of infection of a communicable disease	
		(3
	marks)	
h)	Distinguish between mechanical and biological vectors	(4 marks)
,		,

QUESTION TWO

a) Using a well labelled diagram, briefly describe the epidemiological trial of disease causal factors

(3 marks)

b) Provide a detailed description of the stages of a natural disease cycle.

(12 marks)

QUESTION THREE

a) Differentiate between pre-pathogenesis and pathogenesis periods of the disease cycle.

(4 marks)

b) Using HIV/AIDs as an example, describe the chain of infection of a communicable disease

(11

marks)

QUESTION FOUR

Malaria is a deadly vector borne disease that is prevalent in tropical countries.

a) Briefly describe two types of disease vectors.

(2 marks)

b) Describe the fundamental principles for control and prevention of malaria as a vector borne disease
 (13 marks)

QUESTION FIVE

a) Define the term "disease determinant" and give an example

(2 marks)

b) Discuss in detail the host factors of a communicable disease.

(13 marks)