



## THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

## Faculty of Business & Social Studies

DEPARTMENT OF LIBERAL STUDIES, COMMUNITY DEVELOPMENT & COUNSELING

DIPLOMA IN COMMUNITY DEVELOPMENT & COUNSELLING (DCDC A09)

## **VECTOR, DISEASE AND EPIDEMIOLOGY**

END SUPPLEMENTARY/SPECIAL EXAMS

**SERIES:** APRIL/MAY 2010.

TIME: 3 HOURS

## **INSTRUCTIONS TO CANDIDATES**

Answer question **ONE** and any other **TWO** questions.

Q.1	(a)	Briefly explain the stages followed in carrying out an epidemiology			
		investigation of a disease.			(16 marks)
	(b)	Discuss the <b>THREE</b> (3) main types of analytical studies.			(9 marks)
	(c)	Define the following terminologies as used in epidemiology.			
		(i)	Infectivity		
		(ii)	Virulence		
		(iii)	Pathogenicity		
		(iv)	Determinant		
		(v)	Clinical infection		(5 marks)
Q.2	(a)	Describe the measures you would employ to prevent and control			
		Falciparum malaria in Coast Province.			(12 marks)
	(b)	Define:			
		(i)	Incidence of disease		
		(ii)	Prevalence of disease		
		and o	compare the two terms.		(8 marks)
Q.3	(a)	A hypothetical example of MOH morbidity figures are given below.			
		Malaria 27			
		Respiratory disease		25	
		Skin disease		9	
		Dysentery		4	
		Tuberculosis		4	
		Cholera		3	
		Typhoid		10	
		Accid	lents	18	

Use a Pie Chart to illustrate this information. (6 marks) (b) Briefly explain the concept of measuring disease by case fatality. Cite one example. (10 marks) Define the following: (c) (i) Intrinsic determinants (2 marks) (ii) Extrinsic determinants. (2 marks) Q.4 (a) Define the following: (i) Communicable diseases. (2 marks) Zoonotic diseases. (2 marks) (ii) Write short notes on stable malaria and unstable malaria. (8 marks) (b) List **FOUR** species of plasmodium. (c) (i) (2 marks) (ii) Describe the life cycle of one species mentioned above. (6 marks)