



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 SEMESTER EXAMS

SERIES: APRIL/MAY 2010.

TIME: 3 HOURS

INSTRUCTIONS TO CANDIDATES

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

Q.1	(a)	Define the following terms as used in Epidemiology.					
		(i)	Popu	lation at risk.			
		(ii)	A det	erminant		(2 marks)	
		(iii)	Intrin	sic determinants		(1 mark)	
		(iv)	Extri	nsic determinants		(2 marks)	
	(b)	List and explain series of the Astages followed in epidemiological					
		inves	(15 marks)				
	(c)	Discuss measures that can be instituted to prevent and control malaria.					
						(10 marks)	
Q.2	(a)	(i)	Plot a bar graph of disease occurrence versus percentage				
			of total discharges for the following figures.				
			Infect	tious diseases	30		
			Pregn	nancy	15		
			Respi	iratory diseases	12		
			Blood diseases 10				
			Injuries diseases 8				
			Nut ration diseases10Nervous system diseases5				
			Other	rs	10	(6 marks)	
		(ii)	Defin	e the terms;			
			(I) (II)	Morbidity rate Mortality rate		(2 marks) (2 marks)	
	(b)	Discuss stable and unstable malaria.				(10 marks)	

Q.3	(a)	Name FOUR plasmodium species.	(4 marks)
	(b)	Describe the stages of malaria fever development.	(10 marks
	(c)	Briefly explain the various types of epidemiological study.	(6 marks)
Q.4	(a)	Define and then compare incidence and prevalence of disease.	(10 marks
	(b)	By using a life cycle, describe how the causative agent of malaria	

maintains itself in the environment.

(10 marks)