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) Population at risk.

(ii) A determinant (2 marks)

(iii) Intrinsic determinants (1 mark)

(iv) Extrinsic determinants (2 marks)

(b) List and explain series of the stages followed in epidemiological investigations of a disease. (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 diseases.

Diseases	Discharges
Infectious diseases	30
Pregnancy	15
Respiratory diseases	12
Blood diseases	10
Injuries diseases	8
Nut ration diseases	10
Nervous system diseases	5
Others	10

(6 marks)

(ii) Define the terms;

(I) Morbidity rate (2 marks)
(II) Mortality rate (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)