



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2011/2012

SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE
IN ANIMAL PRODUCTION AND HEALTH MANAGEMENT

KAP 102: INTRODUCTION TO ANIMAL HEALTH MANAGEMENT

DATE: TUESDAY, 3RD APRIL 2012

TIME: 8.00 A.M. – 10.00 A.M.

INSTRUCTIONS: Answer question ONE and any other THREE questions.

1. (a) Distinguish the following terms as used in animal health. (15 marks)
 - (i) Acute disease and Chronic disease
 - (ii) Incubation period and Latent disease
 - (iii) Primary infection and Secondary infection
 - (iv) Sporadic disease and Endemic disease
 - (v) Biological transmission of disease and Mechanical transmission of disease
- (b) Outline the classification of diseases according to the causative agents. (5 marks)
- (c) Give two major reasons on the need to be cautious when approaching an animal for examination. (5 marks)
2. (a) What is the importance of the following observations in disease diagnosis? (10 marks)
 - (i) When the body temperature is lower than normal.
 - (ii) When the body temperature is higher than normal
 - (iii) Paleness of mucous membranes e.g. in the mouth or vulva.
 - (iv) Accumulation of fluid on the lower side of the body.
 - (v) Haemorrhages on the mucous membranes.
- (b) Indicate clinical signs that would suggest that an animal is having disease of the following body system: (5 marks)
 - (i) Digestive system

(ii) Respiratory system

3. In examination of sick animals, it is common practice to draw and centrifuge non-coagulated blood in order to separate it into the various components.
- (a) Explain the purpose of using anticoagulant in this process. (3 marks)
 - (b) Illustrate and name the layers obtained after spinning non-coagulated blood. (3 marks)
 - (c) Indicate how you measure the packed cell volume. (3 marks)
 - (d) Give two things which you can surmise about the health status of the animal from examination its centrifuged blood. (6 marks)
4. (a) Explain the following terms used to measure occurrence of disease in a population. (6 marks)
- (i) Disease incidence
 - (ii) Disease prevalence
 - (iii) Case fatality
- (b) The three components of disease system are the host, agent and the environment. Briefly discuss the factors of each of these components in determining the outcome of infection. (9 marks)
5. (a) Name and explain the differences between the various types of vaccines used to control animals diseases. (6 marks)
- (b) What factors may influence development of immunity after vaccination. (4 marks)
- (c) Briefly outline the preparations that you would require to make in order to mount a successful vaccination campaign. (5 marks)
