



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2010/2011

SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF
SCIENCE IN ANIMAL PRODUCTION AND HEALTH MANAGEMENT
KAP 102: INTRODUCTION TO ANIMAL HEALTH MANAGEMENT

=====

DATE: THURSDAY 31ST MARCH 2011 TIME: 8.00 A.M. - 10.00 A.M.

=====

INSTRUCTIONS

Answer Question ONE and any other THREE questions

- Q1. (a) State four (4) environmental factors which play a role in initiating disease in a herd of animals (4 marks).
- (b) List 3 steps that an agent must go through to perpetuate disease in a herd (3 marks).
- (c) (i) State five (5) ways in which a disease agent can exit the body and enter another animal (5 marks)
- (ii) For each means of exit stated in Q1c i. above explain the management technique (s) that can be used to minimize transmission to another animal (5 marks).
- (d) Explain the term 'The hosts third line of defense' (2 marks)

- (e) Differentiate between the following
- i) IgG and IgM
 - ii) IgA and IgE (4 marks)
- (f) State the functions of macrophages (2 marks)
- Q2 (a) Explain the importance of feeding colostrum to calves (5 marks)
- (b) Metabolic disease can be caused by overfeeding (fat animals) as well as underfeeding animals. Discuss (5 marks)
- (c) The leaner the cow, the more rapidly she will begin to cycle after parturition and the more quickly she can be rebred. Discuss (5 marks).
- Q3 (a). State and explain the roles played by any three (3) short chain fatty acids in dairy cows (6 marks).
- (b) Name the two major types of mastitis seen in dairy herds and explain how they can be controlled (4 marks)
- (c) State two environmental factors that contribute to
- (i) Bovine Respiratory Disease (BRD) (2 marks)
 - (ii) Reproductive problems in ruminants (2 marks)
- (d) Name an agent which is spread in cat feces and can cause reproductive problems in a number of animal species as well as man? (1 mark)

- Q4 a) i) State the agent which is responsible for causing foot and mouth disease in cattle? (1 mark)
- ii) Describe the measures that must be taken when the disease is reported in a herd (5 marks)
- c) Name the three status describing if a country is infected with of foot and mouth disease (3 marks)
- d) (i) Name the types of animals that can be infected with foot and mouth disease (3 marks)
- (ii) Explain how the infection in (i) above occurs (3 marks)
- Q5 (a) Describe the predisposing conditions for laminitis in a horse (2 marks)
- (b) Explain how laminitis can be prevented and treated in horses (5 marks)
- (c) Outline five (5) means by which disease is transmitted from animal to animal in a swine breeding herd (5 marks)
- (e) List three management practices of a female swine that would maximize reproductive performance (3 marks)