



MACHAKOS UNIVERSITY

University Examinations for 2016/2017

SCHOOL OF AGRICULTURE AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF AGRIBUSINESS MANAGEMENT

**THIRD YEAR FIRST SEMESTER EXAMINATION FOR BACHELOR OF
SCIENCE IN AGRICULTURAL EDUCATION AND EXTENSION**

KAP301 ANIMAL HEALTH AND DISEASE

Date: 2/12/2016

Time: 8:30 – 10:30 AM

INSTRUCTIONS:

Answer Question A and Any Other Two Questions

SECTION A: ANSWER ALL QUESTIONS (30 MARKS)

QUESTION ONE (COMPULSORY)

- (a) Give two characteristics that would make a disease to be included in the list of notifiable diseases. (2 marks)
- (b) Outline the factors that predispose cattle to mastitis. (3 marks)
- (c) Name two diseases of farm animals that you would suspect for each of the following signs:
 - (i) Anaemia in cattle (2 marks)
 - (ii) Diarrhea poultry (2 marks)
- (d) Describe the control methods of the following diseases in Kenya:
 - (i) Foot and Mouth Disease (4 marks)
 - (ii) African Swine Fever (4 marks)
 - (iii) Coccidiosis (4 marks)
 - (iv) Lumpy Skin Disease (4 marks)

- (e) Describe the typical life cycle of a nematode (5 marks)

SECTION B: ANSWER TWO QUESTIONS (40 MARKS)

QUESTION TWO (20 MARKS)

- (a) Outline the classification of animals diseases according to the causative agents. (8 marks)
- (b) Describe the importance of the classification outlined in Section 2 (a) (2 marks)
- (c) Describe the main features of infectious agents. (10 marks)

QUESTION THREE (20 MARKS)

Describe Bovine Anaplasmosis under the following headings:

- (a) Causative agent (3 marks)
- (b) Transmission (5 marks)
- (c) Clinical features (6 marks)
- (d) Control (6 marks)

QUESTION FOUR (20 MARKS)

Describe pullorum disease of poultry under the following titles

- (a) Causative agent (4 marks)
- (b) Clinical signs (6 marks)
- (c) Methods of spread (5 marks)
- (d) Control (5 marks)

QUESTION FIVE (20 MARKS)

Discuss the zoonotic importance and transmission of the following diseases to humans and animals:

- (a) Anthrax (6 marks)
- (b) Rift Valley Fever (7 marks)
- (c) Rabies (7 marks)