



MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS

2019/2020 ACADEMIC YEAR

FOURTH YEAR ONE SEMESTER

**SCHOOL OF NATURAL RESOURCE AND ANIMAL
SCIENCES**

**BACHELOR OF SCIENCE IN ANIMAL HEALTH AND
PRODUCTION**

COURSE CODE: AHP 4102

**COURSE TITLE: AQUATIC ANIMALS AND
WILDLIFE DISEASES
MANAGEMENT**

DATE: 13TH DECEMBER, 2019

TIME: 1430 - 1630 HRS

INSTRUCTIONS TO CANDIDATES

Answer **ALL** questions are compulsory.

This paper consists of 3 printed pages. Please turn over

All questions are compulsory.

1. (a) Discuss the aetiology, epidemiology, clinical signs and control of Epizootic ulcerative syndrome. (15 marks)
(b) Discuss briefly five external observations that you may observe on fish on a farm. (5 marks)

2. (a) State the impacts of wildlife diseases. (3 marks)
(b) Discuss the importance of the livestock-wildlife disease interface briefly. (5 marks)
(c) Discuss briefly the two diseases that are transmitted between the wildlife and livestock in Kenya, stating the causative agent, wildlife/livestock interaction and control/management strategies. (12 marks)

3. (a) Define the following terms:
 - a. Disease risk (1 marks)
 - b. Disease drivers (1 marks)
 - c. Disease pathways (1 marks)
 - d. Emerging disease (2 marks)
(b) Discuss the feline immuno-deficiency virus under the following topics:
 - (i) epidemiology (3 marks)
 - (ii) Clinical signs (10 marks)
 - (iii) Control (2 marks)

4. (a) State the difference between probiotics, prebiotics and symbiotics. (6 marks)
(b) Briefly discuss the advantages and disadvantages of the use of probiotics in fish health management. (6 marks)
(b) Briefly discuss the following diseases:
 - (i) Columnaris (4 marks)
 - (ii) Saprolegniasis (4 marks)

5. (a) State 6 risk factors, with relevant examples for disease emergence. (6 marks)
(b) Using a diagram, show the transmission and transformation of zoonotic pathogens from wild animals. (6 marks)

(c) Discuss briefly the components of a national wildlife health programme in the management of wildlife diseases. (8 marks)

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