



# **MAASAI MARA UNIVERSITY**

**REGULAR UNIVERSITY EXAMINATIONS  
2022/2023 ACADEMIC YEAR**

**SECOND YEAR FIRST SEMESTER**

**SCHOOL OF NATURAL RESOURCE, TOURISM,  
AND HOSPITALITY**

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

**COURSE CODE: AHP 4102**

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

**DATE: 13<sup>TH</sup> DECEMBER, 2022**

**TIME: 0830-1030**

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**INSTRUCTIONS TO CANDIDATES**

Answer **ALL** questions in are **COMPULSORY**

*This paper consists of 2 printed pages. Please turn over*

- 1 a List four (4) transboundary aquatic animal diseases. (4 marks)
- b List four (4) transboundary animal diseases transmitted between livestock and wildlife. (4 marks)
- c With the aid of a diagram, demonstrate a model of wildlife infectious disease risks. (12 marks)
- 2 a Based on the OIE definition, differentiate the terms wild animal and wildlife. (4 marks)
- b There was an outbreak of the Nipah virus in Malaysia in 1998. A link between humans, pigs, and bats was established.
  - (a) Discuss the link and the reason for the outbreak. (6 marks)
  - (b) Explain two (2) considerations in disease ecology strategies that can be employed in future pandemics to prevent such outbreaks. (10 marks)
- 3 a State the etiology and clinical signs of piscine tuberculosis. (8 marks)
- b Discuss the etiology, clinical signal, and predisposing factors of Epizootic Ulcerative Syndrome in fish (12 marks).
- 4 Malignant Catarrhal Fever is a common disease in the Maasai MARA Ecosystem. Discuss the Malignant Catarrhal Fever under the following topics:
  - i. Etiology and species affected (5 marks)

- ii. clinical signs manifestation in the incidental and reservoir host (10 marks).
  - iii. Control and prevention (5 marks)
- 5 a Discuss the etiology and clinical discourse of Feline Immuno-deficiency Virus (FIV) in Lions in East Africa. (14 marks)
- b. Describe the effects on the lion population and the overall ecosystem health. (6 marks)
- 6 a Discuss the factors that have contributed to the spread of aquatic animal diseases globally. (15 marks)
- b Define the term Biosecurity in reference to Transboundary Aquatic Animal Diseases. (5 marks)

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