

MAASAI MARA UNIVERSITY

**REGULAR UNIVERSITY EXAMINATIONS 2016/2017 ACADEMIC YEAR**

**THIRD YEAR SECOND SEMESTER**

**SCHOOL OF TOURISM AND NATURAL RESOURCE MANAGEMENT**

**BACHELOR OF WILDLIFE MANAGEMENT**

**COURSE CODE: WLM 364**

**COURSE TITLE: WILDLIFE DISEASES AND PATHOLOGY**

**DATE: 6TH JULY, 2017 TIME: 0830 – 1030HRS**

**INSTRUCTIONS TO CANDIDATES**

Answer **ALL** questions in section **A** and any other three in section **B**

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

**SECTION A (ANSWER ALL QUESTIONS)**

1. Define the following terms:
   1. Emerging infectious diseases **(1 MARK)**
   2. Spillover  **(1 MARK)**
   3. Diplococci **(1 MARK)**
   4. Parasitism **(1 MARK)**
   5. Abscess **(1 MARK)**
2. Why are wildlife diseases important? **(5 MARKS)**
3. State 5 (five) clinical signs of anthrax **(5 MARKS)**
4. (a) List 3 (three) species of cestodes that infects wildlife **(3 MARKS)**

(b) Name 2 (two) acellular pathogens **(2 MARKS)**

1. (a) State the Kochs’ Postulate **(4 MARKS)**

(b) Name a virus that causes disease in bats **(1 MARK)**

**SECTION B (ANSWER ANY THREE (3) QUESTIONS)**

1. Discus rabies in mammals under: causative agent, transmission, clinical signs and control. **(15 MARKS)**
2. Discus the manifestations of ill-health in wildlife. **(15 MARKS)**
3. You are in-charge of a game slaughterhouse in Sabaku ranch where ungulates are reared for game meat. Explain ante-mortem inspection procedures you would enforce to ensure safety of the meat. **(15 MARKS)**
4. Based on the review paper by Hassel *et al*., 2016, *Urbanization and Disease Emergence: Dynamics at the Wildlife-Livestock-Human Interface*, discus the influence of urbanization on the pathogen emergence and epidemiology at wildlife-Livestock-Human Interface within multihost systems in Nairobi National Park and its environs. **(15 MARKS)**

**/END**



MAASAI MARA UNIVERSITY

**SUPPLEMENTARY/SPECIAL UNIVERSITY EXAMINATIONS 2016/2017 ACADEMIC YEAR**

**THIRD YEAR SECOND SEMESTER**

**SCHOOL OF TOURISM AND NATURAL RESOURCE MANAGEMENT**

**BACHELOR OF WILDLIFE MANAGEMENT**

**COURSE CODE: WLM 364**

**COURSE TITLE: WILDLIFE DISEASES AND PATHOLOGY**

**DATE: AUGUST 2014 TIME:**

**INSTRUCTIONS TO CANDIDATES**

Answer **ALL** questions in section **A** and any other three in section **B**

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**SECTION A (ANSWER ALL QUESTIONS)**

**SECTION A (ANSWER ALL THE QUESTIONS)**

1. Define the following terms:
   1. Target host **(1 MARK)**
   2. Interface dynamics  **(1 MARK)**
   3. Melanosis **(1 MARK)**
   4. Intermediate host **(1 MARK)**
   5. Epizootic **(1 MARK)**
2. Briefly explain why wildlife diseases important? **(5 MARKS)**
3. State 5 (five) clinical signs of foot and mouth disease **(5 MARKS)**
4. List 5 (five) manifestations of ill-health in wild birds **(5 MARKS)**
5. List 5 (five) phyla of animal parasites **(5 MARKS)**

**SECTION B (ANSWER ANY THREE (3) QUESTIONS)**

1. Describe the lifecycle of a nematodes in wild animals **(15 MARKS)**
2. Discus the post mortem procedure in game animals **(15 MARKS)**
3. As a wildlife manager, you have the responsibility to ensure emergence and transmission of diseases is monitored and controlled. How would you build a robust surveillance to prevent spread of zoonotic diseases? **(15 MARKS)**
4. Discuss tuberculosis: causative agent, epidemiology, clinical picture, diagnosis, control and its zoonotic importance. **(15 MARKS)**

**//END**