



MAASAI MARA UNIVERSITY

**REGULAR UNIVERSITY EXAMINATIONS
2017/2018 ACADEMIC YEAR
FIRST YEAR SECOND SEMESTER**

**SCHOOL OF TOURISM AND NATURAL
RESOURCE MANAGEMENT
BACHELOR OF SCIENCE IN ANIMAL HEALTH
AND PRODUCTION**

COURSE CODE: AHP 1201

COURSE TITLE: ANIMAL PHYSIOLOGY II

DATE: 26TH APRIL, 2018

TIME: 1100 – 1300 HRS

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 in section A and any other THREE in section B.)

1. a) State the functions of the gastro intestinal system. **(1Mark)**
b) Give the differences in structure of the gut in ruminants and non ruminants. **(2 Marks)**
c) Describe briefly, the process of absorption in the large intestines. **(2 Marks)**
2. a) State the autonomic mechanisms of thermoregulation. **(2 Marks)**
b) List **three** metabolic processes that lead to thermogenesis. **(3 Marks)**
3. a) Name the three accessory genital glands. **(3 marks)**
b) Mention structures that are traversed by semen during ejaculation. **(2 marks)**
4. Outline the physiologic responses to named extremes of temperature. Match the response with the appropriate temperature extreme. **(5 marks)**
5. State the structural differences between the ruminant and non ruminant stomachs. **(5 marks)**

SECTION B

6. Discuss process of digestion in the bovine in detail. **(15marks)**
7. Describe the process of neonatal development from fertilization to parturition. **(15marks)**
8. Discuss shivering and none shivering thermogenesis. **(15marks)**
9. Describe the process of digestion of a meal containing maize and beans in the swine. **(15marks)**

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