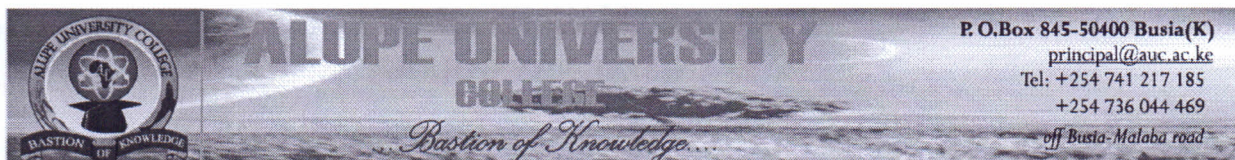


ZOO 300 E



OFFICE OF THE DEPUTY PRINCIPAL  
ACADEMICS, STUDENT AFFAIRS AND RESEARCH

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## UNIVERSITY EXAMINATIONS

### 2020 /2021 ACADEMIC YEAR

THIRD YEAR FIRST SEMESTER MAIN EXAMINATION

FOR THE DEGREE OF BACHELOR OF  
EDUCATION SCIENCE

COURSE CODE: ZOO 300 E

COURSE TITLE: ANIMAL PHYSIOLOGY

DATE: 9<sup>TH</sup> MARCH 2021

TIME: 9.00 A.M – 12.00 P.M

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### INSTRUCTIONS TO CANDIDATES

- SEE INSIDE

THIS PAPER CONSISTS OF 3 PRINTED PAGES

PLEASE TURN OVER

ZOO 300 E

**REGULAR - MAIN EXAM**

**ZOO 300 E: ANIMAL PHYSIOLOGY**

**STREAM: B.EDS**

**DURATION: 3 Hours**

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**INSTRUCTIONS TO CANDIDATES**

- i. Answer ALL questions from section A and any THREE from section B.*
  - ii. Diagrams should be used whenever they serve to illustrate the answer.*
  - iii. Do not write on the question paper.*
- =====

**SECTION A (24 MARKS)**

**Question One**

- a) Explain the function of the following hormones:-
- i. Anti-Diuretic Hormone (ADH) (2 Marks)
  - ii. Testosterone (2 Marks)
  - iii. Insulin (2 Marks)
- b) Outline the functions of the liver. (6 Marks)

**Question Two**

- a) Define the term osmoregulation. (2 Marks)
- b) Discuss any six factors that may affect metabolic system. (6 Marks)
- c) Describe any four functions of kidney. (4 Marks)

**SECTION B (36 MARKS)**

**Question Three**

Explain the steps involved in hearing. (12 Marks)

**ZOO 300 E**

**Question Four**

Discuss the alternating processes of heat promotion and heat loss.

(12 Marks)

**Question Five**

Using a diagram, explain the histology of the gut.

(12 Marks)

**Question Six**

Illustrate and explain the anatomy of the eye.

(12 Marks)

**Question Seven**

a) Define homeostasis.

(2 Marks)

b) Evaluate the components of a homeostatic control system and their functions.

(10 Marks)

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