

WOMEN'S UNIVERSITY IN AFRICA



Addressing gender disparity and fostering equity in University Education

FACULTY OF AGRICULTURAL SCIENCES

BSc AGRICULTURE HONOURS DEGREE IN ANIMAL SCIENCE

MAIN PAPER

AS 311: LIVESTOCK IMPROVEMENT

INTAKE: SECOND YEAR SECOND SEMESTER

DATE: 2021

TIME:

INSTRUCTIONS TO CANDIDATES

Answer any **four** questions.

Question 1

Using examples, explain the *in-situ* from *ex-situ* conservation of animal genetic resources. [25]

Question 2

Examine the adaptability traits of indigenous beef animal breeds in sub Saharan Africa. [25]

Question 3

Examine the constraints faced by animal breeders in the conservation of animal genetic resources in a developing country of your choice. [25]

Question 4

(a) Using examples, explain artificial and natural selection. [15]

(b) Explore the merits and demerits of the pig performance scheme at Pig Industry Board. [10]

Question 5

Explain the adaptation of indigenous animal genetic resources to the effects of climate change in Southern Africa. [25]

Question 6

Explain the following:

(a) Cross breeding; [9]

(b) Pure breeding ; and [8]

(c) Line breeding. [8]