



UNIVERSITY OF EMBU

2018/2019 ACADEMIC YEAR

SECOND SEMESTER EXAMINATIONS

THIRD YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN
AGRICULTURE (ANIMAL SCIENCE)

AAS 309: AQUACULTURE, APICULTURE AND LABORATORY ANIMALS

DATE: APRIL 11, 2019

TIME: 2.00PM – 4.00PM

INSTRUCTIONS:

Answer Question ONE and ANY Other TWO Questions.

QUESTION ONE (30 MARKS)

- a) What is the broad meaning of “Animal Science Laboratory” (4 marks)
- b) Describe the three (3) major purposes of keeping bees (4 marks)
- c) Farmers in Kitui county want to start keeping bees as a commercial enterprise, advise them on various factors that may influence production of honey in this part of the country. (5 marks)
- d) Explain the term, Aquaculture (2marks)
- e) Describe the measures you would put in place to safe guide animal welfare in a research institute. (4 marks)
- f) Giving examples, describe five (5) common uses of laboratory animals (5 marks)
- g) Describe one main purpose of fish farming (2 marks)
- h) List four major characteristics of a good species of fish that a farmer has to look for before he starts a fish farming (4marks)



ISO 27001:2013 Certified

Knowledge Transforms



ISO 9001:2015 Certified

QUESTION TWO (20 MARKS)

You are a newly employed fish officer in Embu County. What questions must a fish investor ask you and get answers to avoid uncertainties and failure in fish farming? (20 marks)

QUESTION THREE (20 MARKS)

- a) When planning for commercial aquaculture, which aspects of production must be considered critically? (10 marks)
- b) Discuss the major disadvantages associated with aquaculture in Kenya (10 marks)

QUESTION FOUR (20 MARKS)

- a) Discuss the main challenges facing aquaculture as a business in Central Kenya (10 marks)
- b) What major role does bees play in Livestock (cattle) production in ASAL areas (10 marks)

QUESTION FIVE (20 MARKS)

- a) In reference to Europe, discuss the ethical consideration facing the use of Laboratory Animals in Research (10 marks)
- b) Discuss briefly the importance of bees to our planet Earth (10 marks)

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