



UNIVERSITY OF EMBU

2016/2017 ACADEMIC YEAR

SECOND SEMESTER EXAMINATION

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

AAS 309: AQUACULTURE, APICULTURE AND LABORATORY ANIMALS

DATE: APRIL 5, 2017

TIME: 8:30-10:30AM

INSTRUCTIONS:

Answer Question ONE and ANY other TWO Questions

QUESTION ONE:

- a) Explain why the Tilapia (*Oreochromis niloticus*) is a preferred pond culture fish in Kenya (6 Marks)
- b) Describe the features of an appropriate bee hive (6 Marks)
- c) Explain what happens during the following seasons in a floral calendar.
 - i) Dearth (2 Marks)
 - ii) Build up (2 Marks)
 - iii) Honey flow seasons (2 Marks)
- d) Explain how you would care for the doe and young rabbits (kitten) from birth up to 2 weeks of age.
 - i) The doe (3Marks)
 - ii) The Kitten (3 Marks)
- e) Highlight the problems are associated with rabbit breeding (6 Marks)

QUESTION TWO:

- a) A local company, *Aquafirm* intends to set up a commercial aquaculture enterprise in your county and you have been approached to offer technical advice. Describe the factors the company needs to consider before setting up the business (12 Marks)
- b) Discuss the role of the aquaculture industry in Kenya (8 Marks)

QUESTION THREE:

- a) Discuss the significance and control measures for the following predators of fish.
- i) Frogs and toads (3 Marks)
 - ii) Snakes (3 Marks)
 - iii) Birds (3 Marks)
 - iv) Otters (3 Marks)
- c) Describe 4 guidelines to be considered during transport of live fish (8 Marks)
-

QUESTION FOUR:

- a) Describe the major roles of rabbit farming in Kenya (12 Marks)
- b) Outline the factors that should be considered when selecting replacement stock in a rabbit enterprise (8 Marks)

QUESTION FIVE:

- a) Discuss the significance and control strategies for the following apiculture pests and predators: Safari ants; Termites ; Honey badger; Pirate wasps and birds such as honey guides (10 Marks)
- b) Outline the significance of the following hive products to both bees and humans: Propolis; Royal Jelly; Pollen; Bees wax and Honey (10 Marks)

-END-