

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF CERTIFICATE IN

ANSC 00268: AQUACULTURE AND APICULTURE

STREAMS: CERT. ANHE Y2S2

TIME: 2 HOURS

DAY/DATE: TUESDAY 06/08/2019

8.30 A.M. – 10.30 A.M.

INSTRUCTIONS:

- **Answer all questions in section A and any two in B**

SECTION A (40 MARKS)

- Outline fish species suitable for semi-intensive system in Kenya. (2 marks)
 - Outline different attributes influencing culturing of Rainbow trout. (2 marks)
 - Highlight factors influencing Tilapia fish environment. (2 marks)
 - Describe advantages of manure application in a fish pond. (2 marks)
 - Describe farming types integrating with fish farming. (2 marks)
- Describe preferred time for feed supplementation to fish. (2 marks)
 - Distinguish the following terminologies as applied in fish aquaculture
 - Fecundity and fingerlings (2 marks)
 - Mixed-sex culture and poly culture (2 marks)
 - Outline various advantages of hapas in fish rearing. (2 marks)
 - Outline various methods for obtaining all-male fingerlings. (2 marks)
- Highlight importance of a fish hatchery. (2 marks)

- (b) List various agricultural by-products used as fish feed supplements. (2 marks)
- (c) Highlight importance of fish pond dykes. (2 marks)
- (d) Highlight advantages of bee-keeping. (2 marks)
- (e) Describe a queen bee. (2 marks)
- 4. (a) Highlight the functions of a worker bee. (2 marks)
- (b) Describe the following terminologies. (4 marks)
 - (i) Swarming
 - (ii) Absconding
 - (iii) Migration
 - (iv) Supersedure
- (c) Outline bee pests and methods of controlling them. (4 marks)

SECTION B (30 MARKS)

- 5. (a) Explain factors determining fish pond construction. (10 marks)
 - (b) Discuss methods used to control fish diseases. (5 marks)
 - 6. (a) Explain various ways of promoting bee-keeping in Kenya. (10 marks)
 - (b) Describe Kenya Top Bar Hive (KTBH). (5 marks)
 - 7. (a) Discuss factors determining level of supplementation in fish feeding. (10 marks)
 - (b) Explain factors determining apiary setting. (5 marks)
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