

CHUKA



UNIVERSITY

**UNIVERSITY EXAMINATIONS**

**EXAMINATION FOR THE AWARD OF CERTIFICATE IN ANIMAL HEALTH**

**ANSC 00268: AQUACULTURE AND APICULTURE**

**STREAMS: CERT.ANHE**

**TIME: 2 HOURS**

**DAY/DATE: MONDAY 16/4/2018**

**11.30 A.M. – 1.30 P.M.**

**INSTRUCTIONS: ANSWER ALL QUESTIONS IN SECTION A AND ANY TWO IN SECTION B**

**SECTION A (40 MARKS)**

1. (a) List the factors influencing fish environment. [2 marks]
- (b) Describe different methods of manure application in a fish pond. [2 marks]
- (c) Describe farming types that integrates with fish farming. [2 marks]
- (d) Describe preferred time for offering feeds to fish. [2 marks]
2. (a) List fish species mainly cultured in Kenya. [2 marks]
- (b) Outline different attributes influencing culturing of Tilapia in tropics. [2 marks]
- (c) Distinguish the following terminologies as applied in fish aquaculture
  - (i) Fecundity and fingerings. [2 marks]
  - (ii) Mixed-sex culture and poly culture [2 marks]
- (d) Outline various advantages of hapas in fish breeding. [2 marks]
- (e) Outline various methods for obtaining all-male fingerings. [2 marks]
3. (a) Highlight advantages of using inorganic fertilizers in fish pond fertilization. [2 marks]
- (b) List various agricultural by-products used as fish supplements. [2 marks]
- (c) Outline various attributes of fish pond dykes. [2 marks]
- (d) Outline various advantages in 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) Describe various bee pests and methods of controlling them. [4 marks]

**SECTION B (30 MARKS)**

5. (a) Explain in details, various factors influencing fish pond construction.[10 marks]
- (b) Explain various methods used to control spread of fish diseases. [5 marks]
6. (a) Explain various ways of promoting bee-keeping in Kenya. [10 marks]
- (b) Describe bee protective clothing. [5 marks]
7. (a) Explain in details factors influencing level of supplementation in fish feeding. [10 marks]
- (b) Explain various factors influencing apiary setting. [5 marks]
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