

CHUKA



UNIVERSITY

**UNIVERSITY EXAMINATIONS**

**FOURTH YEAR EXAMINATION FOR THE AWARD OF DEGREE  
OF BACHELOR OF SCIENCE IN ANIMAL SCIENCE**

**ANSC 466: APICULTURE AND SERICULTURE**

**STREAMS: BSC (ANSC)**

**TIME: 2 HOURS**

**DAY/DATE: WEDNESDAY 11/4/2018**

**11.30 A.M. – 1.30 P.M.**

**INSTRUCTION: ATTEMPT ALL QUESTIONS IN SECTION A AND ANY TWO IN SECTION B**

**SECTION A**

1. Define the following terminologies as applied in Apiculture. [10 marks]
  - (i) Absconding swarm
  - (ii) Anaphylactic shock
  - (iii) Brace/burr comb
  - (iv) Capped brood
  - (v) Comb
  - (vi) Dancing
  - (vii) Drifting of bees
  - (viii) Parthenogenesis
  - (ix) Foundation
  
2.
  - (a) Describe regions where the following bees are located. [2 marks]
  - (b) Describe the area where supercedure queen eggs are located inside the bee colony. [2 marks]
  - (c) Highlight location of bee combs in the various types of hives. [2 marks]
  - (d) Highlight various conditions under which a worker bee is likely to lay eggs in a colony. [2 marks]
  - (e) Outline methods of attracting bees into hives. [2 marks]

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3. (a) Outline different characteristics of bee colonies with laying workers. [2 marks]  
(b) Highlight different features of a healthy worker brood. [2 marks]  
(c) Highlight various properties of silk. [2 marks]  
(d) Outline various steps in silk reeling process. [2 marks]  
(f) Highlight various interrelated agro-industrial activities encompassing sericulture. [2 marks]

**SECTION B**

4. (a) Discuss factors influencing usage of different types beehives. [10 marks]  
(b) Discuss functions of bee workers in a colony. [10 marks]
5. (a) Discuss factors influencing apiary setting. [10 marks]  
(b) Discuss factors influencing Sericulture potential in Kenya. [10 marks]
6. (a) Discuss factors influencing quality of honey. [10 marks]  
(b) Discuss factors influencing yield of bee pollinated crops. [10 marks]
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