

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

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

ANSC 466: APICULTURE AND SERICULTURE

STREAMS: BSC ANSC Y4S2

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 08/04/2020

8.30 A.M. – 10.30 A.M.

INSTRUCTIONS:

- Attempt ALL questions in section A and any TWO in B.

SECTION A (30 MARKS)

- Define the following terminologies as applied in Apiculture. (4 marks)
 - Absconding swarm
 - Castes
 - Combs
 - Drifting of bees
 - Describe regions where the following bees are located. (4 marks)
 - Apis mellifera sahariensis*
 - Apis mellifera adansonii*
 - Apis mellifera capensis*
 - Apis mellifera yemenitica* (nubica)
 - Describe how to control inbreeding in honey bees. (2 marks)
- Describe the worker bee in relation reproduction. (2 marks)
 - Describe a log hive. (2 marks)
 - Describe components of a bee suit. (2 marks)

- (d) Describe a catcher box. (2 marks)
- (e) Outline factors affecting pollination by bees. (2 marks)
- 3. (a) Describe the importance of tail waggle dance. (2 marks)
- (b) Outline causes of dearth period. (2 marks)
- (c) Highlight various properties of silk. (2 marks)
- (d) Outline various steps in silk reeling process. (2 marks)
- (e) Highlight various interrelated agro-industrial activities encompassing sericulture. (2 marks)

SECTION B

- 4. (a) Discuss factors influencing honey production in Kenya. (10 marks)
 - (b) Discuss five (5) factors that influence the quality of nectar. (10 marks)
 - 5. (a) Discuss five (5) reasons why beekeepers are supposed to be conversant with bee plants. (10 marks)
 - (b) Discuss five (5) factors that influence the siting of an apiary. (10 marks)
 - 6. (a) In details explain five (5) honey processing techniques. (10 marks)
 - (b) Discuss methods of promoting sericulture in Kenya. (10 marks)
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