

2nd SEM 2011/2012



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**UNIVERSITY OF SWAZILAND
FINAL EXAMINATION PAPER**

PROGRAMME: B.SC AG.ED YEAR IV, B.SC LWM YEAR IV & B.SC AN.SCI
YEAR IV, BSC ABE YEAR IV

COURSE CODE: AS 401/APH 401

TITLE OF PAPER: APICULTURE

TIME ALLOWED: TWO (2) HOURS

INSTRUCTIONS: ANSWER FOUR (4) QUESTIONS

**DO NOT OPEN THIS PAPER UNTIL PERMISSION HAS BEEN GRANTED BY THE
CHIEF INVIGILATOR**

QUESTION 1

- A) Briefly discuss honey production and marketing in Swaziland. (8.0 points)
- B) Describe a worker honey bee. (7.0 points)
- C) Describe the temperature (cold and heat) regulation in the hive by the honey bees. (10.0 points)

QUESTION 2

- A) Describe the stinging process. (10.0 points)
- B) Describe the “undertakers” activities in the hive. (10.0 points)
- C) When are drones produced? What are their lifespan? (5.0 points)

QUESTION 3

- A) Describe the external inspection of hives indicating the observations made and their meaning. (15.0 points)
- B) Briefly explain the causes of absconding. (10.0 points)

QUESTION 4

- A) Briefly explain the importance of pollen for honey bees. (15.0 points)
- B) Write short notes about feeding stations. (10.0 points)

QUESTION 5

- A) List and explain the values of honey. (15.0 points)
- B) Discuss apitherapy. (10.0 points)