

2<sup>nd</sup> SEM 2010/2011



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**UNIVERSITY OF SWAZILAND  
SUPPLEMENTARY EXAMINATION PAPER**

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

**COURSE CODE:** 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**

Biology and behavior of honeybees.

- A) Describe a worker honeybee. (12.5 points)
- B) Describe the temperature (cold and heat) regulation in the hive by the honeybees. (12.5 points)

**QUESTION 2**

Establishment of apiary and beekeeping equipment.

- A) List the seven apiary site requirements. (2X7=14.0 points)
- B) Describe the Swazi top bar hive. (11.0 points)

**QUESTION 3**

Beekeeping management.

- A) External inspection of hives. What do you highlight when inspecting hive. Do not forget to mention the meaning of any observation. (15.0 points)
- B) Briefly explain the causes of absconding. (10.0 points)

**QUESTION 4**

Re-queening.

- A) Explain the queen rearing process. (25.0 points)

**QUESTION 5**

Hive products and marketing.

- A) List how many and explain the values of honey. (25.0 points)