

UNIVERSITY OF SWAZILAND 2nd SEM. 2014/2015 SUPPLEMENTARY EXAMINATION PAPER

PROGRAMME:

B.Sc. AGRICULTURAL EDUCATION YEAR 4

B.Sc. ANIMAL SCIENCE YEAR 4

B.Sc. AGRICULTURAL & BIOSYSTEMS ENGINEERING

YEAR 4

COURSE CODE: AS 401

TITLE OF PAPER: APICULTURE

TIME ALLOWED: TWO (2) HOURS

INSTRUCTIONS: ANSWER ANY FOUR (4) QUESTIONS

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QUESTION 1	,
(a) Differentiate the three castes of bees.	(15 marks)
(b) List and describe 3 activities carried out by bees inside the hive.	(10 marks)
QUESTION 2	
(a) Identify bee behavior that are of economic importance to the beekeeper	
and explain how each affects honey production.	(15 marks)
(b) Discuss an intervention you would employ to remedy this situation.	(10 marks)
QUESTION 3	
a) Write short notes on the contribution of beekeeping in medicine.	(10 marks)
b) Outline the values of honey.	(15 marks)
QUESTION 4	
Discuss five (5) beehive products apart from honey.	(25 marks)
QUESTION 5	
a) Discuss, in detail, pollen substitutes and supplements, and how they can	
be formulated.	(15 marks)
b) Differentiate the following types of feeding in bees:	
i) Stimulative feeding	
ii) Supplementary feeding	
iii) Manipulative feeding	(10 marks)