

MACHAKOS UNIVERSITY

University Examinations 2018/2019 SCHOOL OF AGRICULTURAL SCIENCES DEPARTMENT OF AGRICULTURAL EDUCATION AND EXTENSION THIRD YEAR SECOND SEMESTER EXAMINATION FOR BACHELOR OF SCIENCE IN AGRICULTURAL, EDUCATION AND EXTENSION BACHELOR OF SCIENCE EDUCATION

ANS 302: NON-RUMINANT ANIMAL PRODUCTION

DATE: 24/4/2019

TIME: 8:30 – 10:30 AM

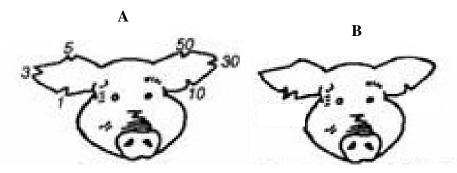
INSTRUCTIONS: Answer Question One and Any Two Questions

QUESTION ONE (COMPULSORY) (30 MARKS)

a)	Explain FOUR advantages of the battery cage system of poultry rearing	(4 marks)
b)	Explain the importance of the following	
	i) Coprophagia in rabbits	(2 marks)
	ii) Supersedure in bees	(2 marks)

c) Using the ear notching code in figure A below,

i) Identify pig **B**



ii) Explain TWO disadvantages of using this method of identification

(2 marks)

(1 mark)

d)	Explain THREE roles of aquaculture in the Kenyan economy	(3 marks)
e)	A poultry farmer in Machakos has reported low hatchability of eggs in his farm. Explain FOUR	
	likely causes for this.	(4 marks)
f)	Pigs have few sweat glands and will encounter problems in regulating their body temperature.	
	Explain TWO management practices to reduce heat stress in the pig house	(4 marks)
g)	Explain FOUR benefits of record keeping in non-ruminant livestock farms	(4 marks)
h)	Explain FOUR ways to control diseases in poultry production	(4 marks)

QUESTION TWO (20 MARKS)

a)	A farmer Katumani wants to practice bee keeping. Propose FIVE factors he needs to consider in		
	planning for the apiary site.	(10 marks)	
b)	Identify FIVE effects resulting from the absence of a queen in a bee colony.	(10 marks)	

QUESTION THREE (20 MARKS)

a)	Explain FIVE factors that pose a challenge to pig production in Kenya.	(10 marks)
b)	Describe FIVE factors affecting water quality in aquaculture	(10 marks)

QUESTION FOUR (20 MARKS)

a)	Mr. Wambua a lives in Ruiru and would like to start rabbit keeping. Explain FIVE reasons why			
	he is likely to succeed	(10 marks)		
b)	Explain FIVE advantages movable comb hives have over fixed comb hives	(10 marks)		
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QUESTION FIVE (20 MARKS)				
a)	Explain FIVE ways a farmer can bio secure his poultry premises	(10 marks)		
b)	Explain FIVE market factors to be considered before starting fish farming	(10 marks)		