

University Examinations for 2016/2017

# SCHOOL OF AGRICULTURE AND NATURAL RESOURCES MANAGEMENT DEPARTMENT OF AGRICULTURE EDUCATION AND EXTENSION

# FIRST SEMESTER EXAMINATION FOR BACHELOR OF SCIENCE IN AGRICULTURE EDUCATION AND EXTENSION

## KRM 307: NON RUMINANT PRODUCTION

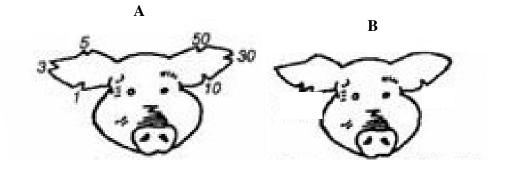
Date: Dec 2016	Time: 2hrs
INSTRUCTIONS:	

#### Answer Question One and any Two Other Questions in Section B

#### **SECTION A: 30 MARKS**

#### **QUESTION ONE (COMPULSORY) (30 MARKS)**

- a) Explain **THREE** circumstances that stimulate worker bees to rear a queen (3 marks)
- b) Explain the importance of the following:
  - i) Candling of eggs (2 marks)
  - ii) Creep feeding of piglets- (2 marks)
- c) i) Using the ear notching code in figure A below, Identify pig B (1 mark)



	ii) Explain <b>TWO</b> disadvantages of using this method of identification.	(2 marks)
d)	Explain FOUR advantages of keeping rabbits over other livestock species.	(4 marks)
e)	Explain FOUR advantages of keeping poultry in battery cages.	(4 marks)
f)	Explain <b>FIVE</b> factors to be considered in setting up an apiary	(5 marks)
g)	Explain THREE constraints facing poultry production in Kenya	(3 marks)
h)	Distinguish between	
	i) A sow and a gilt	(2 marks)
	ii) Queen bee and a worker bee	(2 marks)

## **SECTION B: 40 MARKS**

# **QUESTION TWO (20 MARKS)**

a)	Explain <b>FOUR</b> requirements for the efficient functioning of an incubator.	(14 marks)	
b)	In a local hatchery 800 out of 1000 eggs were found to be fertile during day 7 of incubation period. 600 of the fertile eggs hatched.		
	i) Calculate the percentage hatch of total	(3 marks)	
	ii) Calculate the percentage hatch of fertile	(3 marks)	
QUE	ESTION THREE (20 MARKS)		
a)	Outline the steps followed when harvesting honey from a top bar hive.	(10 marks)	
b)	Explain FIVE uses for beehive products.	(10 marks)	
QUE	CSTION FOUR(20 MARKS)		
a)	Explain <b>THREE</b> factors that affect the reproductive efficiency of the sow.	(6 marks)	
b)	Explain SEVEN problems encountered during farrowing by sows.	(14 marks)	
QUE	ESTION FIVE(20 MARKS)		
a)	Explain SIX reasons for keeping records in rabbit production .	(12 marks)	
b)	Explain FOUR ways that can be used to maintain rabbit hutches and equipment.		
		(8 marks)	