MATRICULATION AND SECONDARY EDUCATION CERTIFICATE EXAMINATIONS BOARD UNIVERSITY OF MALTA, MSIDA

SECONDARY EDUCATION CERTIFICATE LEVEL

MAY 2017

SUBJECT:	Agribusiness
PAPER NUMBER:	Controlled – Unit 3
DATE:	4 th April 2017
TIME:	10:00 a.m. to 11:35 a.m.
THIS PAPER SI AFTER THE EX	IOULD BE RETURNED TO THE INVIGILATOR AMINATION.
Name of candidate	
I.D. number	
School	
Class	

Scenario:

Rabbit farming has grown from raising a few rabbits for family consumption to large commercial operations with hundreds of rabbits. Investment in a rabbitry, including breeding stock, requires knowledge and commitments.

Your school is working on an ambitious project to raise and breed rabbits. You are part of this project. However, before you start working on this project, you have been requested to draft a number of fact sheets which assess your knowledge about rearing and breeding rabbits.

Question 1 K4 (4 marks) Rabbits need an adequate microclimate to grow healthy and without any stress. Describe briefly how the following conditions can affect the growth of rabbits. a. Lack of light: b. Hot temperature: c. High humidity levels: d. Very low ventilation:

Question 2 C2 (6 marks)

Consider the following pictures of different types of feeds, bedding and cages. Write down next to each picture whether each item is best for **pet rabbits** or for **commercial rabbits**. Do not write anything next to the picture that is not related to either pet rabbits or commercial rabbits.

a. Rabbit feed







(2)

This question continues on the next page.

b. Rabbit housing







(2)

c. Rabbit flooring/bedding







_____(2)

Please turn the page.

Question 3 K5 (4 marks)

Link the disease and/or disorder with the probable cause. The first one has been done for you as an example.

Disease and/or Disorder

Fleas

Pasteurellosis (Snuffles)

Viral Haemorrhagic Disease (VHD)

Overgrown Teeth

Urinary Tract Infection (Cystitis)

Probable Cause

Some rabbits have abnormal urinary tract structures that can predispose the animal to such conditions. Abnormal structural change can develop in a rabbit's urinary pathway; it can increase the pressure in the ureters, the tubes that release urine. (1)

These pathogens are more common in some climates and during particular seasons, but they can affect rabbits year-round. Moreover, such pathogens can jump from one pet species to another, such as from dogs or cats.

A bacterial infection that can affect the eyes (discharge, redness, squinting) and/or nose (sneezing, discharge), congestion and conjunctivitis. (1)

This is a viral disease that damages the rabbit's internal organs such as the liver and gut, and can also cause haemorrhage or bleeding from the nose. Sudden death usually occurs. (1)

If a rabbit is not constantly grinding their teeth down by eating fibre one can start to noticing their molar teeth forming sharp spikes that damage their cheeks and tongue. This causes pain that makes them reluctant or unable to eat. (1)

Question 4

State ONE prevention method you would use to prevent the follows occurring.	ing diseases / disorders from
a. Pasteurellosis (Snuffles)	
	(1)
b. Overgrown Teeth	(/
	(1)
c. Viral Haemorrhagic Disease (VHD)	
	(1)
d. Fleas	
	(1)

K6 (4 marks)

Question 5 C3 (6 marks)

Choose the correct disease, disorder or pest from the given list for each treatment listed below. Only \mathbf{ONE} answer is correct for each question.

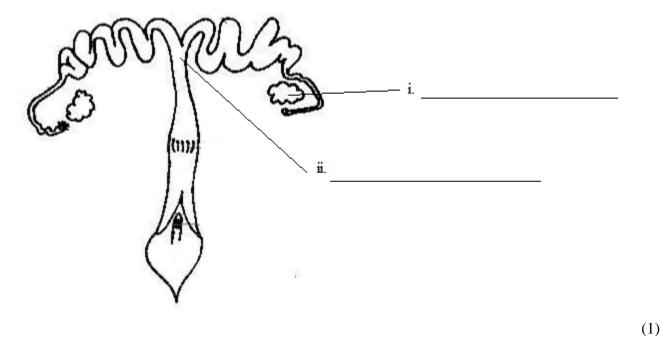
Myxomatosis	Pasteurellosis (Snuffles)	Overgrown teeth	Ear canker		
Calicivirus	Sore hocks	Obesity	Fleas		
Urinary Tract In	fection (Cystitis)	Viral Haemorrhagic Disease (VHD)			

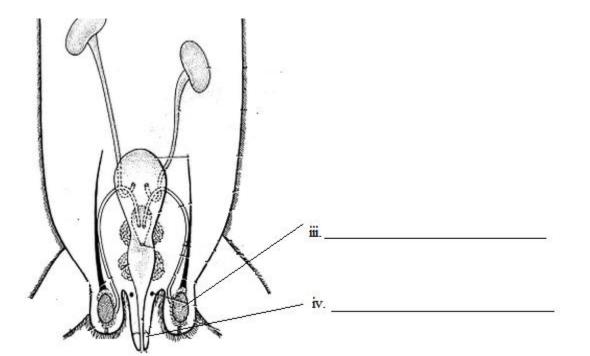
a.	Antibiotic treatment is necessary to cure this disease such. Antibiotics can include enrofloxacin, ciprofloxacin, and trimethoprim sulfa.
	Answer: (1)
b.	There is no specific treatment so only supportive care (fluids, antibiotics to prevent secondary infections, etc.) can be offered.
	Answer: (1)
c.	There is no treatment available. It can only be prevented by giving vaccines, keep the rabbit's environment clean and avoid contact with insects.
	Answer: (1)
d.	Proper nutrition, high in fibre including hay
	Answer: (1)
e.	Affected rabbits often respond to a combination of antibiotic therapy, increased water consumption, dietary modification, weight loss, and an increase in exercise alone. In more severe cases, such as for rabbits with large amounts of calcium in the bladder, fluid therapy and manual massage to empty bladder will be necessary.
	Answer: (1)
f.	Frequent cleaning of bedding and the rabbitry are important in preventing and controlling these parasites. Powders and ointments are also commercially available. In severe cases antibiotics are necessary to cure skin infections caused by this.
	Answer: (1)

Question 6 K7 (4 marks)

Consider the following diagrams of a male and female rabbit reproductive system.

a. Label the organs marked in both diagrams





(1)

This question continues on next page.

b.	Describe ONE function of organ i.:	
		(1/)
		(1/2)
c.	Describe ONE function of organ ii.:	
		(1/2)
d.	Describe ONE function of organ iii.:	
		(1/2)
e.	Describe ONE function of organ iv.:	
		(1/2)
Q	uestion 7	K10 (4 marks)
G	ive and explain TWO reasons why it is important to kill rabbits in a humane way.	
0		
a.		
		(2)

SEC35/c3.17m	
h	

		(2)
Ques	ction 8 C5 (6 ma	rks)
differ quest	nall rabbit breeder and a large commercial rabbit breeder may slaughter their rabbits of techniques but they should respect the welfare of their animals. Answer the followings in order to point out the differences between different methods of slaughtering rabbies TWO slaughtering methods and answer the following questions;	ving
a. i.	Name of method 1:	(1)
ii.	Describe briefly how method 1 is carried out:	
		(1)
b. i.	Name of method 2:	(1)
ii.		(1)
		(1)

This question continues on next page.

c.	By	considering	the	two	methods	that	you	mentioned	above,	choose	the	best	method	of
	slau	ghtering and	expl	ain w	hy.									
														(2)