



**L-Università
ta' Malta**

MATRICULATION AND SECONDARY EDUCATION CERTIFICATE
EXAMINATIONS BOARD

**SECONDARY EDUCATION CERTIFICATE LEVEL
2023 MAIN SESSION**

SUBJECT:	Agribusiness
PAPER NUMBER:	Controlled – Unit 3
DATE:	26 th April 2023
TIME:	10:00 a.m. to 11:35 a.m.

**THIS PAPER SHOULD BE RETURNED TO THE INVIGILATOR
AFTER THE EXAMINATION.**

Name of candidate _____

I.D. number _____

School _____

Class _____

Answer **ALL** questions in the space provided.

Scenario

- Tina holds educational visits at her rabbit farm.
- She is creating an information booklet for her students.
- This booklet will contain important information related to rabbit rearing and breeding.

Question 1

K-1 (4 marks)

a. List the **FOUR** levels of organization within the body of every living organism.

_____ (0.25)

_____ (0.25)

_____ (0.25)

_____ (0.25)

b. Label the rabbit's key organs in Figure 1.

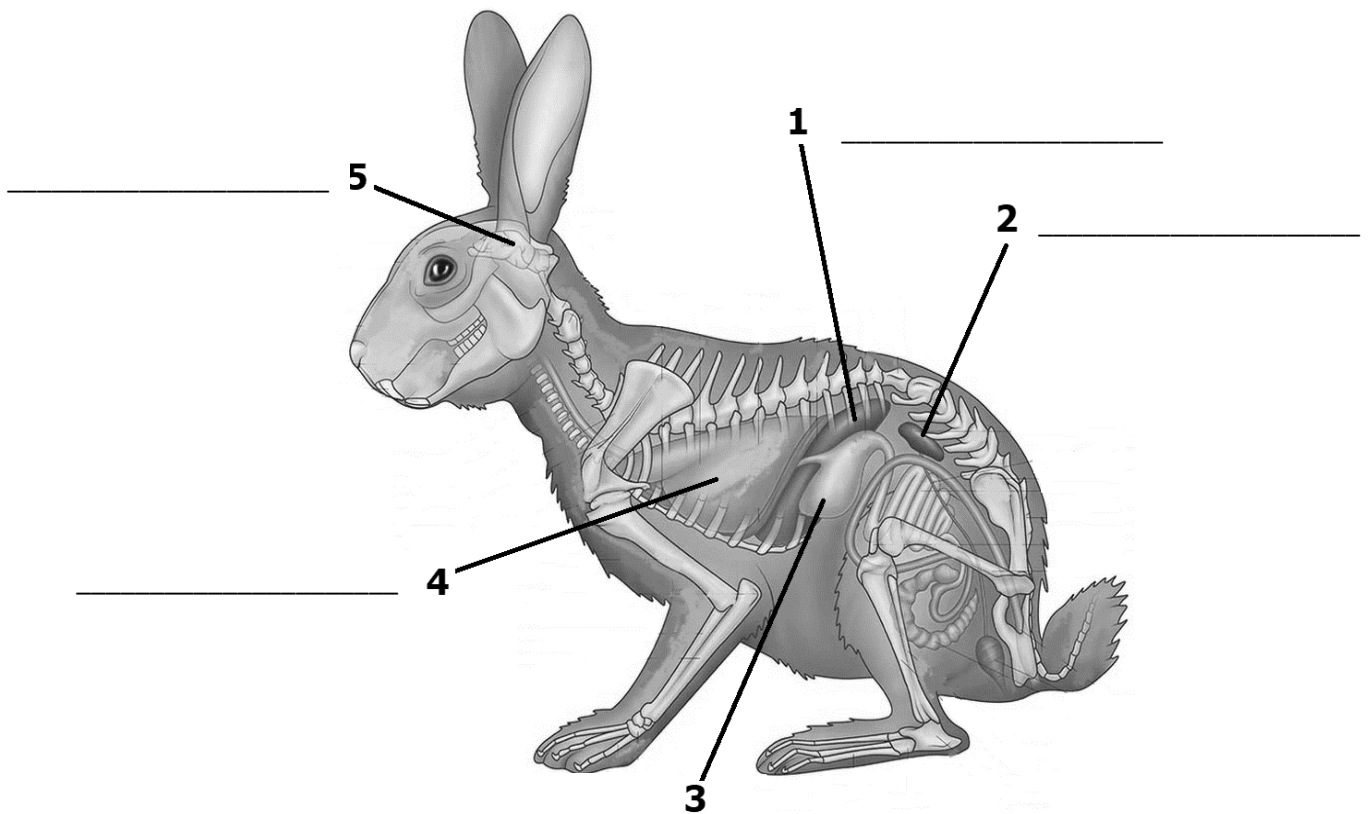


Figure 1: Key organs of a rabbit

(Sources: <https://www.anatomystuff.co.uk>)

(1)

c. Describe a main function of the organs labelled in Question 1b.

Organ 1: _____

_____ (0.4)

Organ 2: _____

_____ (0.4)

Organ 3: _____

_____ (0.4)

Organ 4: _____

_____ (0.4)

Organ 5: _____

_____ (0.4)

Please turn the page.

Question 2

K-6 (4 marks)

a. Define animal feed concentrate.

_____ (1)

b. List **FOUR** different feeds used in rabbit husbandry. Feed 5 and 6 are given as examples.

- Feed 1: _____ (0.25)
- Feed 2: _____ (0.25)
- Feed 3: _____ (0.25)
- Feed 4: _____ (0.25)
- Feed 5: Medicated feed _____
- Feed 6: Pet rabbit feed _____

c. Outline the function of the following nutrients for healthy rabbit growth.

- i. Fibre: _____
_____ (0.5)
- ii. Proteins: _____
_____ (0.5)
- iii. Fats: _____
_____ (0.5)
- iv. Carbohydrates: _____
_____ (0.5)

Question 3

C-4 (6 marks)

- a. In Table 2, compare and contrast the amount of different nutrients needed for commercial rabbits and domestic rabbits by writing High OR Low in the spaces provided.

Table 2: The nutritional requirements of commercial and domestic rabbits

Nutrients	Rabbit breeds	
	Commercial – High or Low?	Domestic – High or Low?
Fibre		
Protein		

(2)

- b. Using the **FOUR** nutrients in the data bank below, describe the nutritional requirements of rabbits at each given life stage.

Protein	Carbohydrates	Fibre	Calcium requirements
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Lactating doe: _____

 _____ (1)

Resting does/bucks: _____

 _____ (1)

- c. From the feeds you mentioned in Question 2b, select the best feed for healthy commercial rabbit growth in the following stages:

Weaning: _____ (0.5)
 Resting does/bucks: _____ (0.5)
 Lactating doe: _____ (0.5)
 Fattening: _____ (0.5)

Please turn the page.

Question 4

K-7 (4 marks)

a. You are provided with the following **FOUR** rabbit diseases and parasites. Classify them by ticking the correct category for each.

Diseases/Parasites	Viral	Bacterial	Parasites	Fungal	
Ear canker					(0.25)
Snuffles					(0.25)
Coccidiosis					(0.25)
Viral Haemorrhagic Disease					(0.25)

b. Relate each of the following rabbit health conditions to a cause that could produce the condition:

Snuffles: _____ (0.2)

Buck teeth: _____ (0.2)

Coccidiosis: _____ (0.2)

Sore hocks: _____ (0.2)

Ear canker: _____ (0.2)

c. Categorise each pharmaceutical administered through the indicated medicinal route by ticking whether it is preventive or curative.

Medicinal Route	Type of pharmaceutical	Preventive	Curative	
Topical	Antiseptic/wound dressing spray			(0.4)
Medical feeds	Feed with antibiotics			(0.4)
Oral-dissolving in water	Vitamin supplements			(0.4)
Injectable	Injection for ear mites			(0.4)
Subcutaneous injectable	RHVD vaccine			(0.4)

Question 5

K-8 (4 marks)

a. List the remaining steps involved in a commercial rabbit breeding system. Steps should be in order.

Step 1: Select parent stock

Step 2: _____ (0.25)

Step 3: _____ (0.25)

Step 4: _____ (0.25)

Step 5: _____ (0.25)

b. i. Outline a rabbits' behaviour in relation to reproduction.

Male behaviour: _____
_____ (0.25)

Female behaviour: _____
_____ (0.25)

ii. Outline a rabbits' anatomical features in relation to reproduction.

Male anatomical features: _____
_____ (0.25)

Female anatomical features: _____
_____ (0.25)

c. Describe the function of the following **FOUR** reproductive organs.

testes	seminal vesicle	cervix	vulva
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