



**L-Università
ta' Malta**

MATRICULATION AND SECONDARY EDUCATION CERTIFICATE
EXAMINATIONS BOARD

**SECONDARY EDUCATION CERTIFICATE LEVEL
2024 MAIN SESSION**

SUBJECT:	Agribusiness
PAPER NUMBER:	Controlled – Unit 3
DATE:	16 th April 2024
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

- Gino is a rabbit breeder and supplier.
- He maintains the rabbit stock in good health and supplies livestock to a number of pet shops around Malta and Gozo.
- Currently he is focusing to produce a leaflet with the frequently asked questions relevant to local rabbitries.

Question 1

K-1 (4 marks)

a. List the **FOUR** levels of organisation in a living organism.

Level 1: _____ (0.25)

Level 2: _____ (0.25)

Level 3: _____ (0.25)

Level 4: _____ (0.25)

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

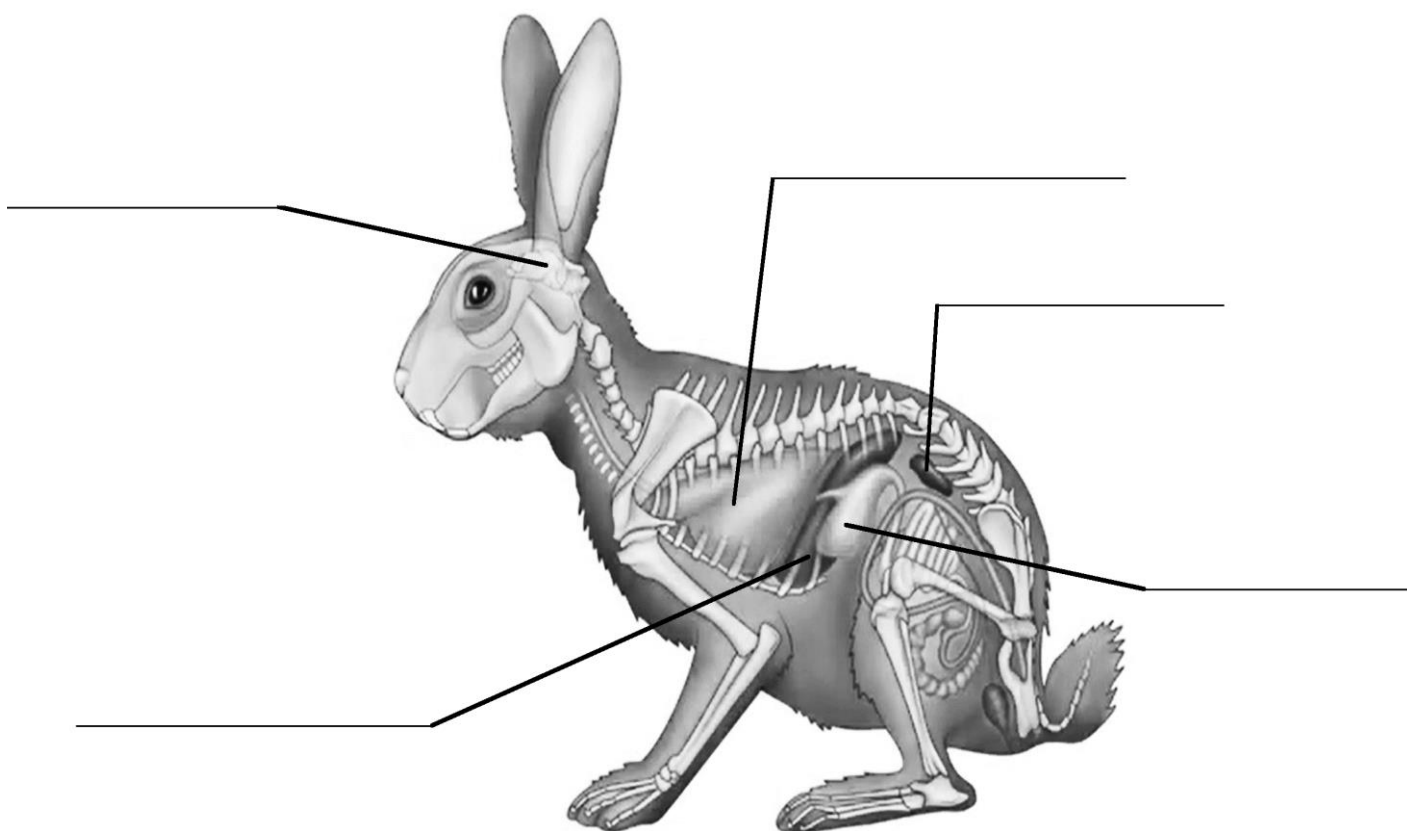


Figure 1: Key organs of a rabbit
(Sources: <https://free-resources.anatomystuff.co.uk/>)

(1)

c. Describe a main function of **TWO** organs of your choice as labelled in Question 1b.

Question 2 **K-6 (4 marks)**

a. Define animal feed concentrate.

b. List **FOUR** different feeds used in rabbit husbandry. Feeds 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 proteins and fibre for healthy rabbit growth.

Question 3

C-4 (6 marks)

- a. In Table 1 compare and contrast the amount of fibre and protein required to satisfy the needs of commercial and domestic rabbits by writing High or Low in the spaces provided.

Table 1: 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 word bank below, describe the nutritional requirements of rabbits at each given life stage.

Protein	Carbohydrates	Fibre	Calcium requirements
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Weaning: _____

Fattening: _____

(2)

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

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

Question 4

K-7 (4 marks)

a. Table 2 provides **FOUR** rabbit diseases and parasites. Classify them by ticking the correct category for each.

Table 2: Rabbit diseases and parasites

Diseases/Parasites	Viral	Bacterial	Parasites	Fungal
Myxomatosis				
Snuffles				
Ear canker				
Coccidiosis				

(1)

b. Relate rabbit health conditions to their cause.

i. Coccidiosis: _____ (0.25)

ii. Myxomatosis: _____ (0.25)

iii. Snuffles: _____ (0.25)

iv. Viral hemorrhagic disease: _____ (0.25)

c. Categorize each pharmaceutical administered through the indicated medicinal route by ticking whether it is preventive or curative in Table 3 below.

Table 3: Medicinal routes

Medicinal route	Type of pharmaceutical	Preventive	Curative
Subcutaneous injectable	Myxomatosis vaccine		
Topical	Ear mite spray		
Oral-dissolving in water	Anti-coccidiosis drug		
Injectable	RHVD Vaccine		
Medical feeds	Feed with antibiotics		

(2)

Please turn the page.

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	prostate gland	cervix	ovaries
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_____ (2)

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