



**L-Università  
ta' Malta**

MATRICULATION AND SECONDARY EDUCATION CERTIFICATE  
EXAMINATIONS BOARD

**SECONDARY EDUCATION CERTIFICATE LEVEL  
2025 MAIN SESSION**

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|---------------|----------------------------|
| SUBJECT:      | <b>Agribusiness</b>        |
| PAPER NUMBER: | Controlled – Unit 3        |
| DATE:         | 9 <sup>th</sup> April 2025 |
| DURATION:     | 10:00 a.m. to 11:35 a.m.   |

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**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**

- Breeding rabbits is an important industry in Malta.
- Both the pet and the consumption industry are very popular.
- Despite this, maintaining a healthy rabbitry has its challenges where the farmer needs to fully understand the following topics:
  - Rabbit anatomy
  - Rabbit health
  - Rabbit nutrition

**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 by filling Table 1 next to the image.

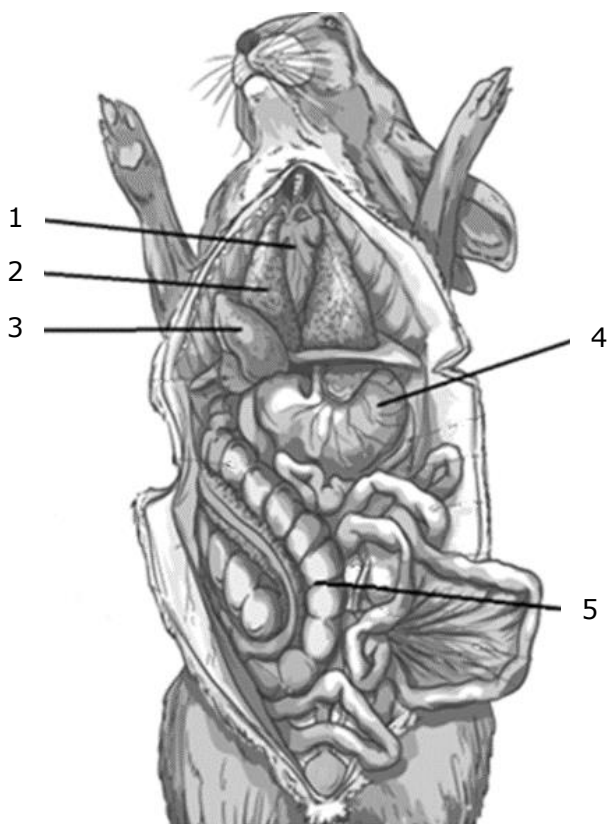


Table 1: Key rabbit organs in Figure 1

| Label | Name of key organ |
|-------|-------------------|
| 1.    |                   |
| 2.    |                   |
| 3.    |                   |
| 4.    |                   |
| 5.    |                   |

(1)

Figure 1: Key organs of a rabbit  
 (Sources: <https://smallpetselect.com>)



**Question 3**

**C-4 (6 marks)**

- a. Compare and contrast the amount of calcium and carbohydrates required to satisfy the needs of commercial and domestic rabbits by writing High or Low in the spaces provided in Table 2.

Table 2: The nutritional requirements of commercial and domestic rabbits

| Nutrients     | Rabbit breeds             |                         |
|---------------|---------------------------|-------------------------|
|               | Commercial – High or Low? | Domestic – High or Low? |
| Calcium       |                           |                         |
| Carbohydrates |                           |                         |

(2)

- b. Describe the nutritional requirements of rabbits at each given life stage by using all the **FOUR** nutrients in the word bank below.

|         |               |       |         |
|---------|---------------|-------|---------|
| Protein | Carbohydrates | Fibre | Calcium |
|---------|---------------|-------|---------|

Lactating doe: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_ (1)

Weaning: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_ (1)

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

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

**Question 4**

**K-7 (4 marks)**

a. Table 3 provides **FOUR** rabbit diseases and parasites. Classify them by ticking the correct category for each.

Table 3: Rabbit diseases and parasites

| <b>Diseases/Parasites</b>  | <b>Bacterial</b> | <b>Viral</b> | <b>Fungal</b> | <b>Parasites</b> |
|----------------------------|------------------|--------------|---------------|------------------|
| Coccidiosis                |                  |              |               |                  |
| Myxomatosis                |                  |              |               |                  |
| Snuffles                   |                  |              |               |                  |
| Viral haemorrhagic disease |                  |              |               |                  |

(1)

b. Relate the following rabbit health conditions to their possible cause.

- i. Ear canker: \_\_\_\_\_ (0.25)
- ii. Viral haemorrhagic disease: \_\_\_\_\_ (0.25)
- iii. Snuffles: \_\_\_\_\_ (0.25)
- iv. Buck teeth: \_\_\_\_\_ (0.25)

c. Categorise each of the following pharmaceuticals administered through the indicated medicinal route by ticking whether it is preventive or curative treatment in Table 4 below.

Table 4: Medicinal routes

| <b>Type of pharmaceutical</b>   | <b>Medicinal route</b>   | <b>Preventive</b> | <b>Curative</b> |
|---------------------------------|--------------------------|-------------------|-----------------|
| RHVD Vaccine                    | Subcutaneous injectable  |                   |                 |
| Soluble antibiotic drug         | Oral-dissolving in water |                   |                 |
| Myxomatosis vaccine             | Injectable               |                   |                 |
| Feed with anti-coccidiosis drug | Medical feeds            |                   |                 |
| Flea spray                      | Topical                  |                   |                 |

(2)

***Please turn the page.***

**Question 5**

**K-8 (4 marks)**

List in order the missing steps involved in a commercial rabbit breeding system. Step 5 is already given.

a. Step 1: \_\_\_\_\_ (0.25)

Step 2: \_\_\_\_\_ (0.25)

Step 3: \_\_\_\_\_ (0.25)

Step 4: \_\_\_\_\_ (0.25)

Step 5: wean depending on breeding intensity.

b. i. Outline a rabbits' anatomical features in relation to reproduction.

Male anatomical features: \_\_\_\_\_  
\_\_\_\_\_ (0.25)

Female anatomical features: \_\_\_\_\_  
\_\_\_\_\_ (0.25)

ii. Outline a rabbits' behaviour in relation to reproduction.

Male behaviour: \_\_\_\_\_  
\_\_\_\_\_ (0.25)

Female behaviour: \_\_\_\_\_  
\_\_\_\_\_ (0.25)

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

|       |        |         |        |
|-------|--------|---------|--------|
| penis | testes | ovaries | uterus |
|-------|--------|---------|--------|

\_\_\_\_\_

\_\_\_\_\_

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