



L-Università
ta' Malta

MATRICULATION AND SECONDARY EDUCATION CERTIFICATE
EXAMINATIONS BOARD

**SECONDARY EDUCATION CERTIFICATE LEVEL
2022 MAIN SESSION**

SUBJECT:	Agribusiness
PAPER NUMBER:	Controlled – Unit 3
DATE:	28 th April 2022
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

- Paul works with a breeder and supplier of rabbits.
- He is in charge of the rabbitry and maintains the stock in good health.
- He delivers rabbits to a number of pet shops around Malta and Gozo.
- Paul created a webpage with information related to the breeding and caring of different rabbit breeds.
- In his website he also included a page on frequently asked questions and provided advice to rabbit breeders and enthusiasts.

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.

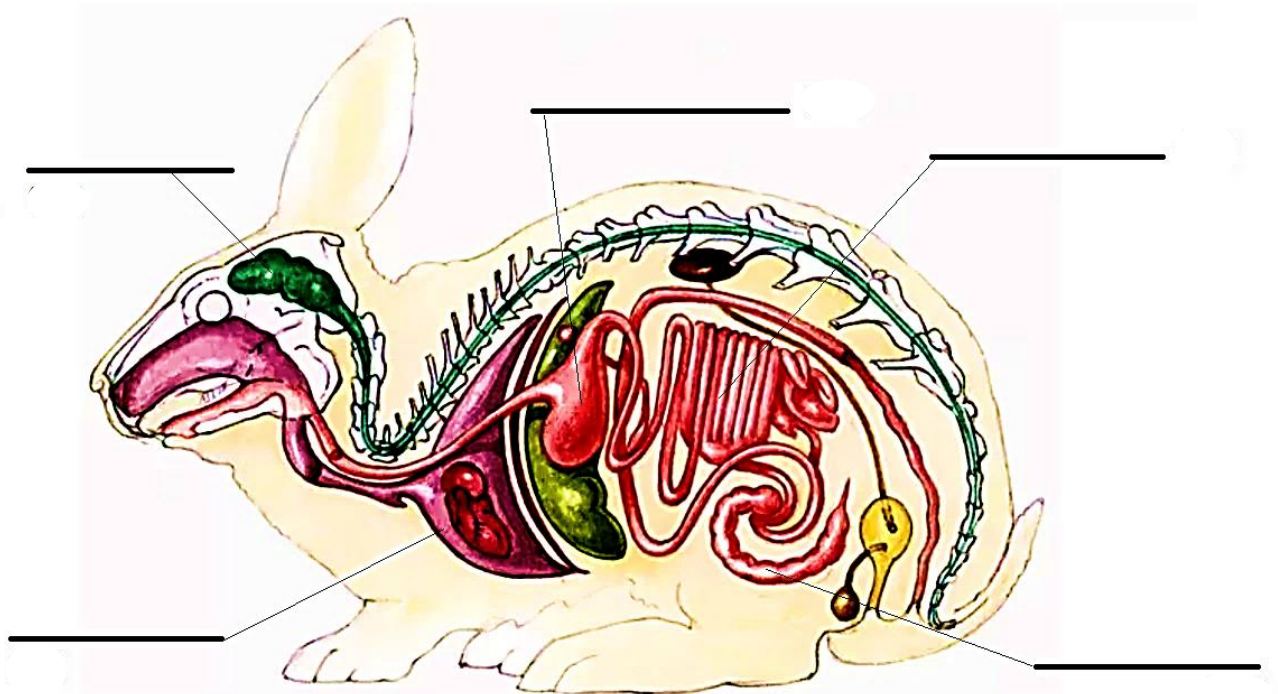


Figure 1: Key organs of a rabbit
(Sources: <https://www.thoughtco.com/animal-organ-systems-4101795>)

(1)

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

i. Carbohydrates: _____
 _____ (0.5)

ii. Proteins: _____
 _____ (0.5)

iii. Fats: _____
 _____ (0.5)

iv. Fibre: _____
 _____ (0.5)

Question 3

C-4 (6 marks)

a. In Table 2 underline whether a high or low amount of nutrients is needed for commercial rabbits and domestic rabbits.

Table 2: The nutritional requirements of commercial and domestic rabbits

Nutrients	Commercial rabbits	Domestic rabbits
Protein	High/Low (0.5)	High/Low (0.5)
Fibre	High/Low (0.5)	High/Low (0.5)

b. Describe **TWO** nutritional requirements of rabbits at the following life stages:

i. Weaning: _____
 _____ (0.5)

ii. Lactating doe: _____
 _____ (0.5)

iii. Fattening: _____
 _____ (0.5)

iv. Resting does/bucks: _____
 _____ (0.5)

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

Weaning: _____ (0.5)

Resting does/bucks: _____ (0.5)

Lactating doe: _____ (0.5)

Fattening: _____ (0.5)

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	
Snuffles					(0.25)
Ear canker					(0.25)
Coccidiosis					(0.25)
Myxomatosis					(0.25)

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

i. Myxomatosis: _____ (0.2)

ii. Coccidiosis: _____ (0.2)

iii. Snuffles: _____ (0.2)

iv. Viral haemorrhagic disease: _____ (0.2)

v. Ear canker: _____ (0.2)

This question continues on next page.

c. Categorize each pharmaceutical administered through the indicated medicinal route by **TICKING** whether it is preventive or curative.

Medicinal Route	Type of pharmaceutical	Preventive	Curative	
Oral-dissolving in water	Antibiotic powder			(0.4)
Medical feeds	Feed with coccidiostat			(0.4)
Injectable	Myxomatosis vaccine			(0.4)
Topical	Ear mite spray			(0.4)
Subcutaneous injectable	RHVD vaccine			(0.4)

Question 5

K-8 (4 marks)

a. List the steps involved in a commercial rabbit breeding system.

- Step 1: _____ (0.2)
- Step 2: _____ (0.2)
- Step 3: _____ (0.2)
- Step 4: _____ (0.2)
- Step 5: _____ (0.2)

b. In Table 5, outline a rabbit’s behavior and anatomical features which show that a rabbit is ready to copulate:

Table 5: The behaviour and anatomical features of rabbits in relation to reproduction

Male	Behavior	_____ (0.25)
	Anatomical features	_____ (0.25)
Female	Behavior	_____ (0.25)
	Anatomical features	_____ (0.25)

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