



L-Università
ta' Malta

MATRICULATION AND SECONDARY EDUCATION CERTIFICATE
EXAMINATIONS BOARD

**SECONDARY EDUCATION APPLIED CERTIFICATE LEVEL
2021 SUPPLEMENTARY SESSION**

SUBJECT:	Agribusiness
PAPER NUMBER:	Synoptic – Unit 2
DATE:	1 st November 2021
TIME:	9:00 a.m. to 11:05 a.m.

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

Answer **ALL** questions in the space provided. You may answer either in English or in Maltese.

Scenario

Amy works at an agricultural supplies shop and her customers are:

- Farmers;
- Pet owners;
- Plant hobbyists.

Her job is to help these customers with questions about products.

Question 1

K-2 (6 marks)

a. Name **FOUR** different types of fertiliser utilised in horticulture.

Type of fertiliser 1: _____ (0.5)

Type of fertiliser 2: _____ (0.5)

Type of fertiliser 3: _____ (0.5)

Type of fertiliser 4: _____ (0.5)

b. Outline **FOUR** benefits of organic matter in the soil bed.

Benefit 1: _____
_____ (0.5)

Benefit 2: _____
_____ (0.5)

Benefit 3: _____
_____ (0.5)

Benefit 4: _____
_____ (0.5)

c. Describe the following **TWO** different irrigation systems suitable for gardens.



Dripper system	Using a hose
----------------	--------------

Question 2



K-3 (8 marks)

- a. Using Table 1 below identify the tools used for pruning.
- b. Using Table 1 below outline the function of each tool.

Table 1: Tools used in pruning

	Picture of Tool	a. Name of Tool	b. Function of tool
i.	 <p>(Source: https://www.grainger.com)</p>	<p>_____</p> <p>(0.5)</p>	<p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>(0.5)</p>
ii.	 <p>(Source: bahco.com)</p>	<p>_____</p> <p>(0.5)</p>	<p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>(0.5)</p>

This question continues on next page.

<p>iii.</p>	 <p>(Source: theprunerwarehouse.com)</p>	<p>(0.5)</p>	<p>(0.5)</p>
<p>iv.</p>	 <p>(Source: lowes.com)</p>	<p>(0.5)</p>	<p>(0.5)</p>

c. Describe **FOUR** activities required for the maintenance of secateurs.

Question 3

K-4 (8 marks)

a. List the **FOUR** materials used in the construction of an aquaria.

- Material 1: _____ (0.5)
- Material 2: _____ (0.5)
- Material 3: _____ (0.5)
- Material 4: _____ (0.5)

b. Match by drawing a line **TWO** temperature control and **TWO** filtration pieces of equipment to be used in a salt water (marine) aquarium.

Salt water (marine) aquarium

Sump filter
Chiller
Internal filter
Immersion heater
Sponge filter
Canister filter

(2)

c. Describe the characteristics of the following **TWO** different lighting systems used in aquaria:

LED	fluorescent
-----	-------------

(4)

Question 4

K-6 (8 marks)

a. Identify the following **FOUR** basic tools used in animal grooming:

i.



(Source: yoybuy.com)

(0.5)

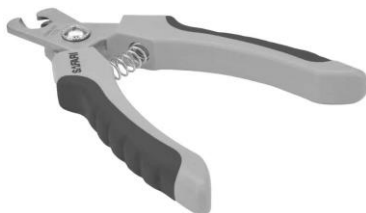
ii.



(Source: petsmart.com)

(0.5)

iii.



(Source: thesprucepets.com)

(0.5)

iv.



(Source: christiesdirect.com)

(0.5)

b. Outline **FOUR** consequences of neglecting an animal’s coat.

Consequence 1: _____ (0.5)

_____ (0.5)

Consequence 2: _____ (0.5)

_____ (0.5)

Consequence 3: _____ (0.5)

_____ (0.5)

Consequence 4: _____ (0.5)

_____ (0.5)



c. Describe **TWO** grooming tasks needed for a dog.

(4)

Question 5

K-8 (8 marks)

a. Identify the following pet nursing equipment used for the checking of vital health parameters.

Picture of Equipment	Name of Equipment
<p>i.</p>  <p>(Source: aussievetproducts.com.au)</p>	<p>_____</p> <p>(1)</p>
<p>ii.</p>  <p>(Source: baronmedical.com)</p>	<p>_____</p> <p>(1)</p>

b. Outline **TWO** reasons why it is important to carry out an animal health check.

i. _____
_____ (1)

ii. _____
_____ (1)

c. Describe the following condition and parasite:

i. cataracts in dogs _____

_____ (2)

ii. fleas in dogs _____

_____ (2)

Question 6

C-3 (12 marks)

a. Outline the function of each pet nursing equipment mentioned in Question 5 (a).

Function of equipment 1: _____

_____ (2)

Function of equipment 2: _____

_____ (2)

This question continues on next page.

b. Explain **TWO** reasons highlighting the importance of vaccinating an animal.

Reason 1: _____

_____ (2)

Reason 2: _____

_____ (2)

c. Discuss how the **FIVE** freedoms should be maintained by the veterinary nurse/groomer.

Freedom from hunger and thirst	Freedom from discomfort
Freedom from pain, injury or disease	Freedom to express normal behaviour
Freedom from fear and distress	

(4)

Blank Page