



**L-Università  
ta' Malta**

MATRICULATION AND SECONDARY EDUCATION CERTIFICATE  
EXAMINATIONS BOARD

**SECONDARY EDUCATION APPLIED CERTIFICATE LEVEL  
2022 SUPPLEMENTARY SESSION**

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SUBJECT: **Agribusiness**  
PAPER NUMBER: Synoptic – Unit 2  
DATE: 31<sup>st</sup> October 2022  
TIME: 5:30 p.m. to 7:35 p.m.

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

**For examiners' use only:**

<b>Question</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>Total</b>
<b>Score</b>							
<b>Maximum</b>	<b>6</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>12</b>	<b>50</b>

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

**Scenario**

- Sonya runs a plant and pet store that has an animal grooming parlour on the back.
- Many of her customers ask different questions especially on gardens and grooming techniques.

**Question 1**

**K-1 (6 marks)**

a. List **FOUR** common sustainable garden types suitable for the Mediterranean climate, apart from an orchard.

- Garden type 1: \_\_\_\_\_ (0.5)
- Garden type 2: \_\_\_\_\_ (0.5)
- Garden type 3: \_\_\_\_\_ (0.5)
- Garden type 4: \_\_\_\_\_ (0.5)

b. Name **TWO** plants suitable for an orchard.

- Plant 1: \_\_\_\_\_ (1)
- Plant 2: \_\_\_\_\_ (1)

c. Describe the following **TWO** parameters to be considered in determining the suitability of a site for the setting up of an orchard.

availability of water	depth of soil
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(2)

**Question 2**

**K-3 (8 marks)**

- a. Identify the **FOUR** tools used in pruning shown in Table 1.
- b. Outline the function of the **FOUR** tools used in pruning shown in Table 1.

Table 1: Tools used in pruning

Tool	a. Name	b. Function
 <p>Pruning tool 1 (Source: <a href="https://www.amazon.ae">https://www.amazon.ae</a>)</p>	<p>(0.5)</p>	<p>(0.5)</p>
 <p>Pruning tool 2 (Source: <a href="https://www.ubuy.co.it">https://www.ubuy.co.it</a>)</p>	<p>(0.5)</p>	<p>(0.5)</p>
 <p>Pruning tool 3 (Source: <a href="https://www.ubuy.tr">https://www.ubuy.tr</a>)</p>	<p>(0.5)</p>	<p>(0.5)</p>
 <p>Pruning tool 4 (Source: <a href="https://www.ubuy.co.it">https://www.ubuy.co.it</a>)</p>	<p>(0.5)</p>	<p>(0.5)</p>

c. Describe **FOUR** activities required to maintain a folding saw in good working condition.

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(4)

8

**Question 3**

**K-4 (8 marks)**

a. List **TWO** materials used in the construction of aquaria.

Material 1: \_\_\_\_\_ (1)

Material 2: \_\_\_\_\_ (1)

b. Match **ONE** temperature control and **ONE** filtration equipment required for a salt water Mediterranean aquarium, from the list provided.

immersion heater	chiller	trickle filter	canister filter
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Temperature control equipment: \_\_\_\_\_ (1)

Filtration equipment: \_\_\_\_\_ (1)

c. Describe **TWO** characteristics for each of the following lighting systems used in aquaria.

i. Metal halide:

Characteristic 1: \_\_\_\_\_

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\_\_\_\_\_ (1)

Characteristic 2: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (1)

ii. LED:

Characteristic 1: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (1)

Characteristic 2: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (1)

8

**Question 4**

**K-6 (8 marks)**

a. Identify the following basic tools used in animal grooming.



\_\_\_\_\_ (0.5)  
Grooming tool 1  
(Source: <https://www.abkgrooming.com>)



\_\_\_\_\_ (0.5)  
Grooming tool 2  
(Source: <https://www.goodhousekeeping.com>)



\_\_\_\_\_ (0.5)  
Grooming tool 3  
(Source: <https://www.wahl.co.uk>)



\_\_\_\_\_ (0.5)  
Grooming tool 4  
(Source: <https://remos-shop.at/>)

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

Consequence 1: \_\_\_\_\_  
\_\_\_\_\_ (0.5)

Consequence 2: \_\_\_\_\_  
\_\_\_\_\_ (0.5)

Consequence 3: \_\_\_\_\_  
\_\_\_\_\_ (0.5)

Consequence 4: \_\_\_\_\_  
\_\_\_\_\_ (0.5)

c. Describe **TWO** coat grooming tasks needed for a long-haired dog, apart from bathing.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (4)

**Question 5**

**K-8 (8 marks)**

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



Pet nursing equipment 1  
(Source: <https://www.medicaexpo.com>)

Name:

\_\_\_\_\_ (1)



Pet nursing equipment 2  
(Source: <https://www.ubuy.co.it>)

Name:

\_\_\_\_\_ (1)

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

Reason 1: \_\_\_\_\_  
\_\_\_\_\_ (1)

Reason 2: \_\_\_\_\_  
\_\_\_\_\_ (1)

c. Describe **ONE** common disease/condition and **ONE** common parasite for cats.

Disease/Condition : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (2)

Parasite : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (2)

8

**Question 6**

**C-3 (12 marks)**

a. Outline the function of the pet nursing equipment identified in Question 5a for the checking of vital health parameters.



Pet nursing equipment 1  
(Source: <https://www.medicaexpo.com>)

Function: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (2)



Pet nursing equipment 2  
(Source: <https://www.ubuy.co.it>)

Function: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (2)

***This question continues on next page.***

b. Explain **TWO** reasons why it is important to vaccinate an animal.

Reason 1: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (2)

Reason 2: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (2)

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

Freedom 1: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (0.8)

Freedom 2: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (0.8)

Freedom 3: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (0.8)

Freedom 4: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (0.8)

Freedom 5: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (0.8)

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