



L-Università
ta' Malta

MATRICULATION AND SECONDARY EDUCATION CERTIFICATE
EXAMINATIONS BOARD

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

SUBJECT: **Agribusiness**
PAPER NUMBER: Synoptic – Unit 1
DATE: 31st October 2022
TIME: 2:30 p.m. to 4:35 p.m.

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

For examiners' use only:

Question	1	2	3	4	5	6	Total
Score							
Maximum	6	12	8	8	8	8	50

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





Vocational Scenario:

- Rose is a manager at the pet shop stores.
- Her duties include health and safety, taking care of plants and animals as well as sales.

Question 1

K-1 (6 marks)

a. Identify the tools and personal protective equipment (PPE) in the given images.

Name of tool/PPE	Image
(0.5)	 Figure 1 (Source: https://www.bahco.com/)
(0.5)	 Figure 2 (Source: https://www.sterennco.com/)
(0.5)	 Figure 3 (Source: https://www.faithfulltools.com/)
(0.5)	 Figure 4 (Source: https://fixit.com.mt/)


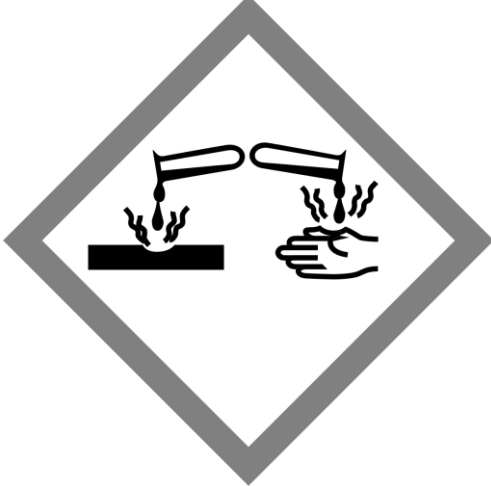
b. Match personal protective equipment (PPE) to their functions, by drawing a line between them.

PPE
Hazmat suit
Sun hat
Respirator
Nitrile gloves

Function
To protect hands from chemicals and pathogens
Means to prevent respiratory contamination
To protect the operator a worker from direct sunlight
Overall body protection from chemicals

(2)

c. Recognize the following Health and Safety signage used in agricultural activity.

Name of sign	
<p>(1)</p>	 <p>Figure 5 (Source: https://en.wikipedia.org/)</p>
<p>(1)</p>	 <p>Figure 6 (Source: https://en.wikipedia.org/)</p>

6

Question 2

C-1 (12 marks)

a. Outline **TWO** preventive measures required for maintaining a safe work environment in a crop production enterprise.

Preventive measure 1: _____

 _____ (2)

Preventive measure 2: _____

 _____ (2)

b. Describe the use of the items that should be present in a First Aid box, as shown in Figure 7.





 <p>Item 1 (Source: https://www.shopee.com.my)</p> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <p>(1)</p>	 <p>Item 2 (Source: https://sanitizekart.com)</p> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <p>(1)</p>
 <p>Item 3 (Source: https://mt.rsdelivers.com)</p> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <p>(1)</p>	 <p>Item 4 (Source: https://www.airgas.com)</p> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <p>(1)</p>

Figure 7: First Aid box Items

c. Explain **TWO** ways of dealing with each of the following injuries:

i. Ron is in pain after having burnt his hand by accidentally placing it in a very hot tractor exhaust pipe.

_____ (2)

ii. Lisa was picking grapes all morning, but she forgot to wear a hat and take enough water to work. She may be suffering from a heat stroke.

_____ (2)

12

Question 3

K-2 (8 marks)

a. Mention the **TWO** types of germination.

Germination type 1: _____ (1)

Germination type 2: _____ (1)

b. Outline **TWO** conditions required for optimum plant propagation of plants, apart from sheltering.

Condition 1: _____

_____ (1)

This question continues on next page.

ii. Condition 2: _____

_____ (1)

c. Describe the following propagation techniques used:

i. Rhizome cutting for ginger: _____

_____ (2)

ii. Layering for mint: _____

_____ (2)

8

Question 4

K-4 (8 marks)

a. List **TWO** tools and **TWO** materials required to graft a plant.

Grafting tool 1: _____ (0.5)
Grafting tool 2: _____ (0.5)
Grafting material 1: _____ (0.5)
Grafting material 2: _____ (0.5)

b. A suitable season and a suitable grafting technique are considerations to be taken when grafting a plant. Mention **TWO** other such considerations.

Consideration 1: _____ (1)

Consideration 2: _____ (1)

c. Describe **TWO** benefits of grafted plants.

_____ (4)

8

Question 5

K-6 (8 marks)


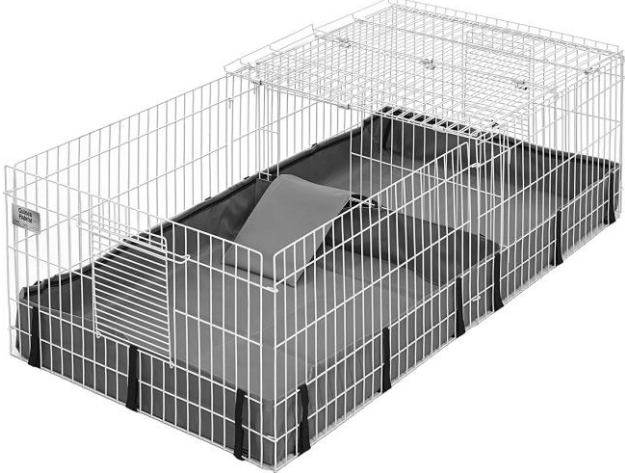
a. List **TWO** common mammalian pets kept in Malta, apart from cats.

Common mammalian pet 1: _____ (1)

Common mammalian pet 2: _____ (1)

This question continues on next page.

b. Identify the following accommodation structures for common mammalian pets in Malta.

		Name of accommodation structure
i.	 <p>Figure 8 (Source: https://www.smulders.pl/)</p>	<p>_____</p> <p>(1)</p>
ii.	 <p>Figure 9 (Source: https://www.ubuy.co.it/)</p>	<p>_____</p> <p>(1)</p>

c. Outline the diet for a cat in the following life stages.

- i. Weaner: _____
_____ (1)
- ii. Juvenile: _____
_____ (1)
- iii. Adult: _____
_____ (1)
- iv. Senior: _____
_____ (1)

Question 6

K-8 (8 marks)

a. Define stock-taking.

_____ (2)

b. Outline **TWO** reasons why stock-taking is important in an agribusiness enterprise.

Reason 1: _____ (1)

Reason 2: _____ (1)

c. Describe the missing steps of the stock-taking procedure.

Step 1: Choose appropriate stock take time so as not to affect operations

Step 2: _____ (1)

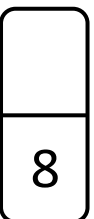
Step 3: _____ (1)

Step 4: _____ (1)

Step 5: Mark stock sheet

Step 6: Validate the stock by comparing the physical count to the stock records to check for any differences.

Step 7: _____ (1)



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