Index Number: _____ SEAC07/s1.23s



MATRICULATION AND SECONDARY EDUCATION CERTIFICATE EXAMINATIONS BOARD

SECONDARY EDUCATION APPLIED CERTIFICATE LEVEL 2023 SUPPLEMENTARY SESSION

SUBJECT: Agribusiness

PAPER NUMBER: Synoptic - Unit 1

DATE: 2nd November 2023

TIME: 8:30 a.m. to 10:35 a.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:

- Peter and Rita are shop owners. Peter runs the horticultural section of the shop and Rita is in charge of the animal section.
- Both are engaged in the running of the business, and they also offer several horticultural services to clients.

Question 1 K-1 (6 marks)

a. In Table 1 below, identify the tools that are used in an agribusiness enterprise.

	Table 1: Tools used in an agribe Name of tool	Image
i.		(Source: https://www.sneeboer.com)
ii.	(0.5)	
	(0.5)	(Source: https://malta.desertcart.com)
iii.	(0.5)	(Source: https://huckberry.com/)
iv.	(0.5)	(Source: https://nymag.com)

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

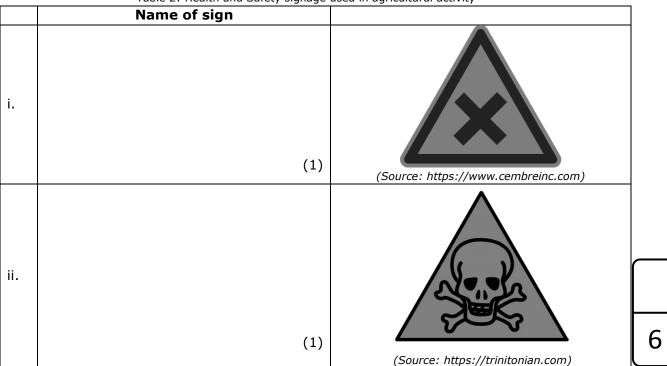
PPE
safety shoes
safety goggles
respirator
garden gloves

Function
To protect hands from thorns and abrasion
A means to prevent respiratory contamination
To protect the operator's feet from machinery and heavy objects
To protect eyes from sharp materials and liquids

(2)

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

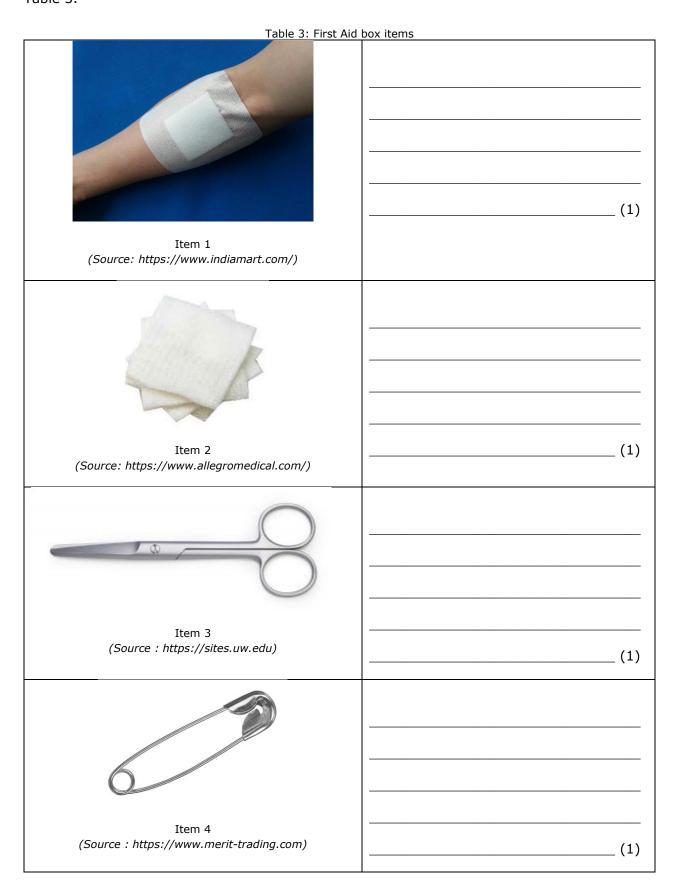
Table 2: Health and Safety signage used in agricultural activity



Question 2 C-1 (12 marks)

a.	Outline TWO preventive production enterprise.	measures required for maintaining a safe work environment in a crop
	Preventive measure 1:	
		(2
	Preventive measure 2:	
		(2)

b. Describe the use of the following items that should be present in a First Aid box, as shown in Table 3.



c. E	explain TWO ways of dealing with each of the following i	njuries:
i.	. Peter was cleaning the shed and he complained of an	eye irritation.
_		
_		
_		
_		
_		
_		(2)
ii. 	i. Rita was assisting a farmer at his vineyard and she acci shears.	idently cut her finger with the pruning
_		
_		
		(2)
Que	estion 3	K-3 (8 marks)
a. Li	ist FOUR growing media used for plant propagation and	l growth.
G	Growing medium 1:	(0.5)
G	Growing medium 2:	(0.5)
G	Growing medium 3:	(0.5)

This question continues on next page.

Growing medium 4: ________(0.5)

. State suitable growing media for the following applications in ho	rticulture.
Application 1: Open field production	
	(1)
Application 2: Production of seedlings	
Outline the following FOUR characteristics of peat as used in ho	rticulture.
i. Water drainage:	
	(1)
ii. Pathogens/Pests:	
iii. Nutrient-holding capacity:	
iv. Aeration:	
	-
	(1)

Question 4

Fish species	Habitat
Goldfish	tropical planted fresh water
Sea bream	marine tropical
Mollies	cold fresh water
Clownfish	marine Mediterranean
Parameter 3:	
Outline the following fish habitats in relation i. Cold freshwater:	
	(2)
ii. Brackish:	

Please turn the page.

K-5 (8 marks)

c.

Question 5 K-7 (8 marks)

- a. In Table 4 below, identify the avian pets kept in Malta.
- b. Match the avian pets identified in Question 5a with the corresponding accommodation from the ones provided below.

	Image	ets kept in Malta a. Identification	b. Accommodation
i.		(1)	(1)
	Avian Pet 1 (Source: https://www.petco.com)		
ii.	Avian Pet 2 (Source: https://en.wikipedia.org/wiki/)	(1)	(1)

Outline a diet for a pigeon through the following life stages.		
i. Chick:		
	(2)	
ii. Juvenile/Adult:		
		 8
	(2) [

Question 6	K-8 (8 marks)
a. Define stock-taking.	
	(2)
 Stock taking is important as a means to manage the inventory of enterprise. Outline TWO other reasons why stock-taking is important enterprise. 	_
Reason 1:	
	(1)
Reason 2:	
	(1)
Describe the missing steps of the stock-taking procedure.	
Step 1:	
	(1)
	(1)
Step 2: Prepare tools and stock sheets	
Step 3:	
	(1)
Step 4: Count items accurately (do not guess quantities)	
Step 5:	
	(1)
Step 6:	
	(1)
Step 7: Update stock records	()

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