

MATRICULATION AND SECONDARY EDUCATION CERTIFICATE EXAMINATIONS BOARD
UNIVERSITY OF MALTA, MSIDA**SECONDARY EDUCATION CERTIFICATE LEVEL****MAY 2015 SESSION**

SUBJECT: **Home Economics**
PAPER NUMBER: I
DATE: 7th May 2015
TIME: 9:00 a.m. to 11:00 a.m.

Answer ALL questions

1. Eggs are a nutritious and useful food commodity which can easily be included in the diet.

a. Give **ONE** vitamin and **ONE** mineral which can be found in the egg yolk.

Vitamin: _____

Mineral: _____

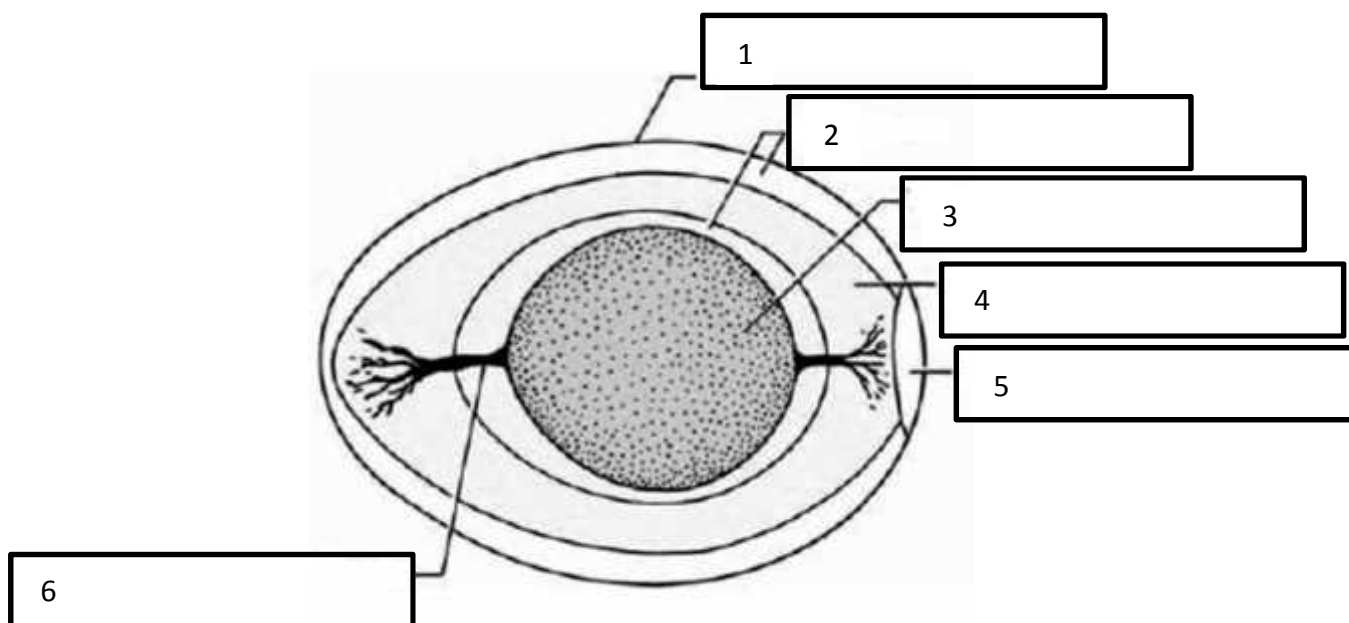
(1 mark)

b. Suggest **TWO** things to keep in mind when storing eggs.

- _____
- _____

(2 marks)

c. Label the marked parts of the egg and record your answers below.



(3 marks)

d. State **TWO** main differences between organic free-range eggs and battery farmed eggs.

- _____
 - _____
- (2 marks)

e. List **THREE** different uses of eggs in cooking and for each use suggest **ONE** dish.

Use	Dish

(3 marks)

f. The egg yolk and the egg white **coagulate** on heating. Describe the effects of heat on the egg yolk and egg white.

Main Parts of the Egg	Name of Effect of Heat	Description of Effect
<i>White</i>	<i>Coagulation</i>	
<i>Yolk</i>	<i>Coagulation</i>	

(1 mark)

2. In Europe, 5% of the population follows a vegetarian diet.

a. Name **TWO** different types of vegetarian diets and describe the main characteristics of each.

- Type of vegetarian: _____
Main characteristics: _____

- Type of vegetarian: _____
Main characteristics: _____

(2 marks)

b. State **ONE** health advantage and **ONE** health disadvantage of following a strict vegetarian diet.

Health Advantage:

- _____

Health Disadvantage:

- _____

(2 marks)

c. Suggest **THREE** guidelines you would keep in mind when planning meals for a vegetarian friend. Discuss practical ways of following these guidelines.

- _____
- _____
- _____

(3 marks)

3. Elderly people are more at risk of suffering from malnutrition.

a. Give **TWO** reasons to support this statement.

- _____
- _____

(2 marks)

b. Suggest a suitable and healthy two-course meal for an elderly person.

Suggested meal:

- 1st course _____
- 2nd course _____

(1 mark)

c. Give **ONE** reason for choosing each of the dishes chosen in *b*.

Reason for choice 1st course

- _____

Reason for choice 2nd course

- _____

(2 marks)

d. Give **ONE** reason why an elderly person should take a good supply of iron.

(1 mark)

e. Suggest **TWO** dietary changes that would need to be made by an elderly who suffers from coronary heart disease.

- _____
- _____

(1 mark)

f. Mention **TWO** other diet-related disorders that are common in old age.

- _____
- _____

(1 mark)

4. Food poisoning is an illness caused by consuming contaminated food.

a. For each situation given below, explain what caused food poisoning and suggest **ONE** strategy how it may have been prevented.

Situation	Cause for Food Poisoning	Strategy that may prevent food poisoning
Last May, Sally and Anna went for a picnic to <i>Buskett</i> . They took a warm chicken and mushroom pie with them, which they ate after a long walk.	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>

<p>John is preparing a fresh chicken salad. He chops the raw chicken into strips, slices the tomatoes, olives and cheeselet using the same knife and chopping board.</p>	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>
<p>Jenny is preparing a ham and hard-boiled egg sandwich. After peeling her egg she finds that the yolk is still soft. She still makes use of it in her sandwich.</p>	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>

(6 marks)

b. Describe **TWO** other ways how food poisoning can occur apart from those given in (a).

- _____
- _____

(2 mark)

c. Give **TWO** types of food poisoning which are usually associated with poultry.

- _____
- _____

(1 mark)

d. For **ONE** of the suggested types of food poisoning given in *c*, describe **FOUR** possible symptoms.

Food poisoning chosen: _____

- _____
- _____
- _____
- _____

(2 marks)

5. A 34-year-old woman has just found out that she is pregnant.

a. Suggest **FOUR** lifestyle changes that she might need to make during this particular time.

- _____
- _____
- _____
- _____

(2 marks)

b. Apart from lifestyle changes, a pregnant woman often needs to make dietary changes. Mention **TWO** nutrients that play an important role in helping the mother to sustain her pregnancy well and explain the importance of each of these nutrients in relation to pregnancy.

- Nutrient 1: _____

- Nutrient 2: _____

(2 marks)

c. Pregnant women are advised to eliminate certain foods from their diet. List **FOUR** foods that should not be consumed by a pregnant mother.

- _____
- _____
- _____
- _____

(2 marks)

d. Constipation is a common condition experienced by plenty of expectant mothers. Suggest **TWO** ways how a pregnant woman can prevent and overcome this problem.

- _____
- _____

(1 mark)

e. After giving birth, a mother is encouraged to breastfeed her baby. Suggest **TWO** possible advantages of breastfeeding a baby.

- _____
- _____

(2 marks)

6. In Europe, food intolerances and food allergies are among the most common chronic illnesses, both in childhood and adulthood.

a i. Define the term *coeliac disease*.

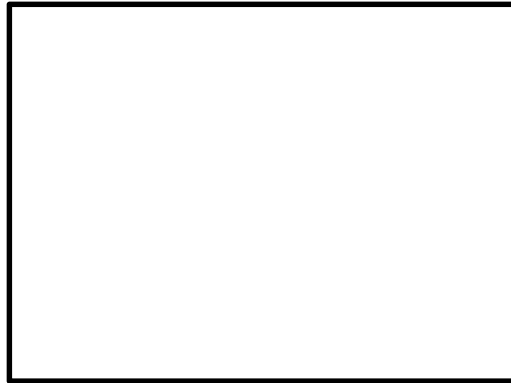
(1 mark)

ii. Give **FOUR** examples of foods which should be avoided by coeliac sufferers.

- _____
- _____
- _____
- _____

(2 marks)

iii. In the space provided below, draw the gluten-free symbol which can be found on food items suitable for coeliac sufferers.



(½ mark)

b i. Define the term *Lactose intolerance*.

(1 mark)

ii. Name **TWO** foods which should be avoided by a person who is lactose intolerant.

- _____
- _____

(1 mark)

iii. Name **ONE** food which could offer healthy amounts of calcium and still be consumed by a person who is lactose intolerant.

(½ mark)

c. List **FOUR other** foods which commonly cause intolerances and allergies.

- _____
- _____
- _____
- _____

(2 marks)

7. Shortcrust pastry is quick and easy to make.

a. Below is the list of ingredients needed to make 200g of short crust pastry. Fill in the missing information.

- _____ plain white or wholemeal flour.
- _____ polyunsaturated margarine.
- Pinch of _____.
- Approximately 8 tablespoons of _____ water.

(2 marks)

b. Why is the use of wholemeal flour recommended when making shortcrust pastry?

(1 mark)

c. Write down the **FIVE** steps to follow when making short crust pastry.

i. _____

ii. _____

iii. _____

iv. _____

v. _____

(5 marks)

d. Suggest **TWO** ways how air can be incorporated when making pastry.

- _____
- _____

(2 marks)

e. Explain why it is important to use our fingertips when making shortcrust pastry.

(1 mark)

f. Why is it essential to pre-heat the oven when cooking dishes made with shortcrust pastry?

(1 mark)

g. Suggest **TWO** healthy sweet and **TWO** healthy savoury dishes made with shortcrust pastry.

<u>Sweet dishes</u>	<u>Savoury dishes</u>
•	•
•	•

(2 marks)

8. John and Karen are setting up their new home and are going around shops to choose their labour saving devices.

a. Identify **TWO** main reasons why labour saving devices are indispensable in the home.

- _____
- _____

(2 marks)

b. Mention **THREE** factors that John and Karen need to keep in mind when choosing their labour saving devices.

- _____
- _____
- _____

(1 ½ marks)

c. Give the name of a labour saving device that John and Karen might find handy when they need to chop vegetables.

- _____

(½ mark)

d. Suggest **THREE** important safety points that they need to keep in mind when using this labour saving device mentioned in c.

- _____
- _____
- _____

(3 marks)

e. Other than the labour saving device suggested in c, give the names of **FOUR** other labour saving devices that John and Karen may purchase for their kitchen.

- _____
- _____
- _____
- _____

(2 marks)

9. Several cooking methods can be used to create a variety of dishes.

a. List **THREE** factors which should be kept in mind when choosing a cooking method.

- _____
- _____
- _____

(3 marks)

b i. Identify **TWO** cooking methods which would be suitable for a person who is trying to lose weight.

- _____
- _____

(1 mark)

ii. Justify the choice of **ONE** of these cooking methods.

Cooking method chosen: _____

Justification of choice:

(1 mark)

c. Vitamin C is an important vitamin needed in good amounts throughout the lifecycle. It performs several functions in the body.

i. Write the chemical name of vitamin C.

_____ (½ mark)

ii. Explain the relationship between vitamin C and iron.

_____ (½ mark)

iii. State **TWO** other functions of vitamin C in the body (do not repeat those already mentioned in *cii*).

- _____
- _____

(2 marks)

iv. Describe **TWO** strategies which could be used to retain vitamin C when preparing and cooking food.

- _____
- _____

(2 marks)

d i. Explain the term *antioxidant*.

(1 mark)

ii. Give **TWO** other examples of antioxidant vitamins other than vitamin C.

- _____
- _____

(1 mark)

iii. Give **TWO** reasons why antioxidants are considered to be important in our diet.

- _____
- _____

(2 mark)

10. Proteins perform many functions in the body.

a. Mention **TWO** different functions of proteins.

- _____
- _____

(2 marks)

b. Outline the difference between essential and non-essential amino acids.

(1 mark)

c. Define the term *complementary proteins*.

(1 mark)

d. Define the terms LBV and HBV protein.

• LBV protein - _____

• HBV protein - _____

(2 marks)

e. Give **TWO** examples of foods containing LBV protein and another **TWO** examples of foods containing HBV protein.

<u>LBV protein foods</u>	<u>HBV protein foods</u>
•	•
•	•

(2 marks)

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MATRICULATION AND SECONDARY EDUCATION CERTIFICATE EXAMINATIONS BOARD
UNIVERSITY OF MALTA, MSIDA

SECONDARY EDUCATION CERTIFICATE LEVEL

MAY 2015 SESSION

SUBJECT:	Home Economics
PAPER NUMBER:	IIA
DATE:	8 th May 2015
TIME:	9:00 a.m. to 11:00 a.m.

Section A - Answer ALL questions

1. A young couple wish to purchase an energy efficient washing machine.

a. How should their new washing machine be rated to be considered as energy efficient?

_____ (½ mark)

b. List **TWO** advantages of using energy efficient appliances.

- _____
 - _____
- (2 mark)

c. Give **TWO** reasons why some people do not use energy efficient equipment.

- _____
 - _____
- (2 marks)

d. Identify **FOUR** ways how this young couple can make the most of their chosen energy-efficient washing machine.

- _____
 - _____
 - _____
 - _____
- (2 marks)

e. What symbols would you expect to find on a garment that needs to be hand washed, dried flat and cannot be tumble dried?

<u>Instruction</u>	<u>Symbol</u>
Hand wash	
Dry flat	
Do not tumble dry	

(1 ½ marks)

2. As consumers we have both rights and responsibilities.

a. List and explain **TWO** consumer rights.

- Consumer right 1 - _____

Explanation - _____

- Consumer right 2 - _____

Explanation - _____

(3 marks)

b. Identify **TWO** responsibilities we have as consumers.

- _____
- _____

(1 mark)

c. Identify the main difference between an *impulse purchase* and a *planned purchase*.

(1 mark)

d. A month ago a friend bought a mobile phone which turned out to be faulty. Your friend decides to complain about the situation. List **THREE** important points that this friend needs to keep in mind when making a complaint.

- ---

- ---

- ---

(3 marks)

e. Identify **TWO** features that make an advertisement misleading.

- ---

- ---

(2 marks)

f. Explain the role of the *European Consumer Centre*.

(1 mark)

3. A couple is looking to buy a new family home for themselves and their child who is wheelchair bound.

a. Give **TWO** sources of information that the couple could use to see what property is available on the local market. Give **ONE** advantage and **ONE** disadvantage for each source given.

- Source of information: _____

Advantage:

Disadvantage:

- Source of information: _____

Advantage:

Disadvantage:

(5 marks)

b. The couple currently live in a flat and are looking to purchase a bigger, more comfortable home. List **FOUR** different types of housing available in Malta which the couple could consider.

- _____
- _____
- _____
- _____

(2 marks)

c. Outline **THREE** factors which the couple should keep in mind when choosing a new type of home considering the special needs of their child.

- _____

- _____

- _____

(3 marks)

d. Suggest **ONE** thing that the parents could do to make the moving of house easier on the child.

(1 mark)

4. Mario, an elderly man lives on his own since his wife passed away a few years ago.

a. Identify **TWO** reasons why elderly people like Mario may be more prone to robbery.

- _____

- _____

(2 marks)

b. The United Nations has designated the 15th June as World Elder Abuse Awareness Day. Apart from the example mentioned in *a*, identify and explain another **TWO** ways how the elderly can be abused.

- _____

- _____

(2 marks)

-
- c. The Local Council where this elderly lives has decided to introduce the *Neighbourhood Watch Scheme*.
- i. Give **ONE** reason why the *Neighbourhood Watch Scheme* can be beneficial for Mario and other senior citizens.

(1 mark)

- ii. Identify **TWO** ways how Mario can help himself to feel safer in his own home.

- _____
- _____

(1 mark)

- d. Mario's daughter offered him to go and live with her family. She is married and has two children aged 6 and 13.

Identify **TWO** advantages of having this elderly grandfather live with them.

- _____

- _____

(2 marks)

- e. Give **TWO** ways how the thirteen-year-old can help out his parents.

- _____
- _____

(1 mark)

- f. Identify **TWO** ways how teenagers and their parents can have a good relationship between them.

- _____
- _____

(1 mark)

Section B – Answer ALL questions

5. Antoine and Beverly recently had a baby and are keen to learn about the development of their child.

a. Identify and explain **TWO** factors that contribute to a child’s physical development.

- _____

- _____

(2 marks)

b. Suggest **THREE** ways how these parents can help their child in his social development.

- _____
- _____
- _____

(3 marks)

c. Identify **TWO** emotional needs of young children.

- _____
- _____

(2 marks)

d. Beverly will be benefiting from her right to maternity leave.

i. Give **TWO** reasons why maternity leave is so important both for the mother and baby.

- _____

- _____

(2 marks)

ii. Mention another **TWO** family-friendly measures that can be of help to young families such as this one.

- _____
- _____

(1 mark)

e. These new parents are also keen on looking after their child's health. Mention **FOUR** ways how they can help their child to have strong and healthy teeth.

- _____
- _____
- _____
- _____

(2 marks)

f. Play is an important part of growing and it enhances learning.

i. Mention **FOUR** things that young children can learn through play.

- _____
- _____
- _____
- _____

(2 marks)

ii. Describe **THREE** safety tips that should be kept in mind when choosing toys for a child.

- _____

- _____

- _____

(3 marks)

g. State **FOUR** different ways in which the home can be made safer for a one year old child.

- _____
- _____
- _____
- _____

(2 marks)

h. Suggest **TWO** ways how watching television could be harmful for a small children.

- _____
- _____

(1 mark)

6. Supermarkets have become especially popular with several chain stores opening up all over the Maltese Islands.

a. Give **TWO** advantages and **TWO** disadvantages of shopping at a supermarket.

Advantage:

- _____
- _____

Disadvantage:

- _____
- _____

(4 marks)

b. State **TWO** advantages of using a shopping list when shopping at a supermarket.

Advantage:

- _____
- _____

(2 marks)

c. Consumers can easily find fresh fruit and vegetables readily available from most supermarket chains. Suggest and discuss **TWO** strategies which consumers could adopt to save money when purchasing fresh fruits and vegetables.

- _____

- _____

(2 marks)

d. Nowadays, most food items are pre-packaged and given appropriate food labels.

i. List **FOUR** items which should be found on a food label by law, excluding the barcode.

- _____
- _____
- _____
- _____

(2 marks)

ii. List **TWO** optional information which is often found on food labels.

- _____
- _____

(1 marks)

iii. Discuss **TWO** reasons why this optional information found on food labels is important to consumers.

- _____

- _____

(2 marks)

e. A barcode is found on all pre-packaged items. Explain its usefulness to both the seller and the consumer by giving **TWO** examples each.

Usefulness to seller:

- _____
- _____

Usefulness to consumer:

- _____
- _____

(2 marks)

f. Online shopping has become increasingly popular. Compare online shopping and traditional shopping methods by discussing possible advantages and disadvantages for each.

Online Shopping:

Advantage:

- _____

Disadvantage:

- _____

Traditional Shopping

Advantage:

- _____

Disadvantage:

- _____

(4 marks)

g. State **TWO** ways of ensuring that electronic transactions are secure.

- _____
- _____

(1 mark)

7. Ensuring a safe environment for all has become a top priority in Malta. Various strategies have been adopted over the past few years to manage *organic waste*, *inorganic waste*, *solid waste* and *liquid waste*.

a. Define the terms in italics:

• *Organic waste*: _____

• *Inorganic waste*: _____

• *Solid waste*: _____

• *Liquid waste*: _____

(4 marks)

b. Outline **TWO** factors which may be contributing to the increase of local solid waste.

• _____

• _____

(2 marks)

c. Suggest **FOUR** strategies which local families could adopt in order to reduce waste, adopt a greener lifestyle and safeguard the local environment.

• _____

• _____

• _____

• _____

(2 marks)

d. According to the National Statistics Office, in 2013, the amount of waste which was treated at the Sant'Antnin Waste Treatment Plant went up 6.3%. This was mainly due to the green/grey bag scheme introduced by the *Irricikla t-Tlieta* scheme.

i. Define *separation at source*.

(1 mark)

ii. Explain how the *Irricikla t-Tlieta* scheme encourages *separation at source*.

(1 mark)

iii. Give **FOUR** examples of items which *should not* be added to the green/grey bags.

- _____
- _____
- _____
- _____

(2 marks)

e. Families in Malta are greatly encouraged to invest in alternative sources of energy, particularly solar energy.

i. Identify **TWO** systems for using solar energy in the home.

- _____
- _____

(1 mark)

ii. Suggest **TWO** ways in which using solar energy in the home is beneficial for the *household* and for the *country* as a whole.

Beneficial for the household:

- _____
- _____

Beneficial for the country:

- _____
- _____

(2 marks)

f. Explain what the following **TWO** symbols mean:





(2 marks)

g. The 5th of June is the day the United Nations celebrate World Environment day.

i. Explain why this day should be given importance.

(1 mark)

ii. Suggest **TWO** ways that local environment groups can be active on that day to encourage awareness.

- _____
- _____

(2 marks)

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MATRICULATION AND SECONDARY EDUCATION CERTIFICATE EXAMINATIONS BOARD
UNIVERSITY OF MALTA, MSIDA

SECONDARY EDUCATION CERTIFICATE LEVEL

MAY 2015 SESSION

SUBJECT:	Home Economics
PAPER NUMBER:	IIB
DATE:	8 th May 2015
TIME:	9:00 a.m. to 11:00 a.m.

Section A - Answer ALL questions

1. A young couple wish to purchase an energy efficient washing machine.

a. What is the rating of an energy efficient washing machine?

_____ (1 mark)

b. List **TWO** advantages of using energy efficient appliances.

• _____

• _____

(2 marks)

c. Give **ONE** reason why some people do not use energy efficient equipment.

(1 marks)

d. The young couple asked for your advice on how to use their washing machine in an economic way. List **THREE** suggestions.





• _____

• _____

• _____

(3 marks)

e. A new garment that they bought recently carries the following symbols on its wash care label. Explain what each of these symbols means.

<u>Symbol</u>	<u>Explanation</u>
	
	
	
	

(2 marks)

2. *The right to be heard* is one of our rights as consumers.

a. List and explain another **TWO** consumer rights.

• Consumer right 1 - _____

Explanation - _____

• Consumer right 2 - _____

Explanation - _____

(3 marks)

b. Mention **TWO** responsibilities we have as consumers.

- _____
- _____

(1 mark)

c. Define *impulse buying* and a *planned buying*.

Impulse buying:

Planned buying:

(2 marks)

d. After three months, your microwave oven suddenly stops working. You decide to complain. List **TWO** things that you need to take with you when making a complaint with the shop owner.

- _____
- _____

(1 marks)

e. Identify **TWO** aspects of a misleading advertisement.

- _____
- _____

(2 marks)

f. Identify **ONE** way how an advertisement for a skin care product can mislead consumers.

(1 mark)

g. Explain the role of the *European Consumer Centre*.

(1 mark)

3. A couple is looking to buy a new family home for themselves and their child who is wheelchair bound.

a. Give **TWO** sources of information that the couple could use to see what property is available on the local market. Give **ONE** advantage and **ONE** disadvantage for each source given.

- Source of information: _____

Advantage:

Disadvantage:

- Source of information: _____

Advantage:

Disadvantage:

(5 marks)

b. List **FOUR** different types of housing available in Malta which the couple may consider.

- _____
- _____
- _____
- _____

(2 marks)

c. Outline **TWO** factors which the couple should keep in mind when choosing a new type of home considering the special needs of their child.

- _____

- _____

(2 marks)

d. Outline **ONE** emotional effect on the child when moving house.

(1 mark)

e. Suggest **ONE** thing that the parents could do to make this change easier on the child.

(1 mark)

4. An elderly man who lives on his own has recently been robbed. He feels insecure in his own home.

a. Identify **ONE** reason why elderly people are more likely to be robbed.

(1 mark)

b. Apart from the example mentioned in *a*, identify another **TWO** ways how the elderly can be abused.

- _____
- _____

(1 mark)

c. Mention **TWO** ways how this elderly man can feel safe at home.

- _____
- _____

(1 mark)

d. Identify **ONE** way how the introduction of the Neighbourhood Watch Scheme can be beneficial especially for elderly people.

(1 mark)

e. The daughter of this elderly man offers him to go live with her family. She is married and has two children aged 6 and 13.

Identify **TWO** advantages of having this elderly grandfather live with them.

- _____
- _____

(2 marks)

f. Give **TWO** ways how the 13 year old can help out her parents.

- _____
- _____

(2 marks)

g. Identify **TWO** ways how teenagers and their parents can have a good relationship between them.

- _____
- _____

(1 mark)

Section B – Answer ALL questions

5. Antoine and Beverly recently had a baby and are keen to learn about the development of their child.

a. Write **TWO** things that will help the baby develop physically.

- _____

- _____

(2 marks)

b. Suggest **TWO** ways how these parents can help their child in his social development.

- _____
- _____

(2 marks)

c. Identify **TWO** emotional needs of young children.

- _____
- _____

(2 marks)

d. Beverly will be benefiting from her right to maternity leave.

i. Give **TWO** reasons why maternity leave is so important both for the mother and baby.

- _____

- _____

(2 marks)

ii. Suggest **TWO** other family-friendly measures that Beverly can benefit from, once her maternity leave is over.

- _____
- _____

(2 marks)

e. Mention **FOUR** ways how the parents can help their child to have strong and healthy teeth.

- _____
- _____
- _____
- _____

(2 marks)

f. Mention **TWO** things that young children can learn through play.

- _____
- _____

(2 marks)

g. Identify and explain **TWO** safety tips that should be kept in mind when choosing toys for a child.

- _____

- _____

(2 marks)

h. State **TWO** different ways in which the home could be made safe for a one year old child.

- _____
- _____

(2 marks)

i. Suggest **TWO** ways how watching television could be harmful for young children.

- _____
- _____

(2 marks)

6. Supermarkets have become popular among many families.

a. Give **TWO** advantages and **TWO** disadvantages of shopping at a supermarket.

Advantage:

- _____
- _____

Disadvantage:

- _____
- _____

(4 marks)

b. State **TWO** advantages of using a shopping list when shopping at a supermarket.

- _____
- _____

(2 marks)

c. Suggest **TWO** strategies which consumers could adopt to save money when buying fresh fruits and vegetables.

- _____
- _____

(2 marks)

d. Look at the food label below.

NUTRITIONAL INFORMATION		
SERVING SIZE 125ml / PER PACK 8		
	AVE QTY/8SERV	AVE QTY/100ml
ENERGY	90kJ	72kJ
PROTEIN	0.9g	0.7g
FAT - Total	0.00g	0.0g
- Saturated	0.00g	0.0g
CARBOHYDRATES		
- Total	4.1g	3.3g
- Sugars	2.9g	2.3g
SODIUM	359mg	287mg

i. Identify **SIX** items which by law should be put on the label.

- _____
- _____
- _____
- _____
- _____
- _____
- _____

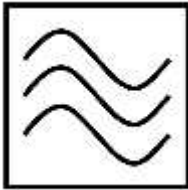

(3 marks)

ii. Identify **TWO** optional items which are found on the label.

- _____
- _____

(1 mark)

iii. Identify the following symbols which are often found on food packaging.

(1 mark)

e. A barcode is found on all pre-packaged items. Explain its usefulness to both the seller and the consumer by giving **ONE** example for each.

Usefulness to seller:

- _____

Usefulness to consumer:

- _____

(2 marks)

f. Give **ONE** advantage and **ONE** disadvantage of online shopping and traditional shopping.

Online Shopping:

Advantage:

- _____

Disadvantage:

- _____

Traditional Shopping

Advantage:

- _____

Disadvantage

- _____

(4 marks)

g. State **ONE** way of ensuring that electronic transactions are secure.

(1 mark)

7. Various strategies have been adopted over the past few years to manage *organic waste* and *inorganic waste*.

a. Define the terms in italics:

- Organic waste: _____

- Inorganic waste: _____

(2 marks)

b. Outline **TWO** factors which may be contributing to the production of solid waste.

- _____
- _____

(2 marks)

c. Suggest **THREE** strategies which families could adopt in order to reduce waste.

- _____
- _____
- _____

(3 marks)

di. Define *separation at source*.

(1 mark)

ii. Explain how the *Irricikla t-Tlieta* scheme encourages individuals to recycle and separate waste at source.

(1 mark)

iii. Give **FOUR** examples of items which can be added to green/grey bags and **FOUR** examples of items which should not be added to the green/grey bags.

Can be added:

- _____
- _____
- _____
- _____

Should not be added

- _____
- _____
- _____
- _____

(4 marks)

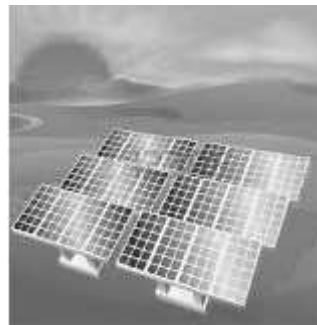
iv. Draw the recycle symbol:



(1 mark)

e. Families in Malta are greatly encouraged to invest in alternative sources of energy, particularly solar energy, for use at home.

i. Label these **TWO** systems for using solar energy in the home.



(1 mark)

ii. Suggest **TWO** ways in which using solar energy in the home is useful for the household and **ONE** way how it is beneficial for the country.

Useful for the household:

- _____
- _____

Beneficial for the country:

- _____

(3 marks)

f. Suggest **TWO** things that local environment groups can do to encourage environmental awareness.

- _____
- _____

(2 marks)

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