



Coimisiún na Scrúduithe Stáit
State Examinations Commission

Leaving Certificate Examination 2022
Home Economics – Scientific and Social
Section A and Answerbook
Higher Level

Wednesday 8 June Afternoon 2:00 - 4:30
200 or 240 marks

Examination Number

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Day and Month of Birth

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For example, 3rd February
is entered as 0302

Centre Stamp

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Instructions

Write your Examination Number and your Day and Month of Birth in the boxes on the front cover.

Write your answers to all parts of the examination into this answerbook. This answerbook will be scanned and your work will be presented to an examiner on screen. Anything that you write outside of the answer areas may not be seen by the examiner.

Write your answers in blue or black pen. You may use pencil for sketches, graphs and diagrams only.

There are three sections to this examination. Questions for **Sections B and C** are supplied separately but your answers must be written in this answerbook.

Section A 30 marks
Answer any **five** questions in this section.
Each question carries 6 marks.

Section B 130 marks
Answer **Question 1** and **one** question from questions 2, 3, 4 and 5.
Question 1 is worth 80 marks.
Questions 2, 3, 4 and 5 are worth 50 marks each.

Section C 40 or 80 marks
Answer **one** elective question **or** Question 4 (core), to include **part (a)** and either **part (b) or part (c)**.

If you submitted *Textiles, Fashion and Design* coursework for examination, you may only attempt Question 2 from this section.

Electives 1 and 3 are worth 80 marks each.

Elective 2 is worth 40 marks.

Question 4 (core) is worth 80 marks.

Section A**30 marks**

Answer any **five** questions from this section.

Each question carries 6 marks.

Write your answers in the spaces provided.

1. State **two** functions of calcium in the body.

(i)
(ii)

Identify **one** factor that affects calcium absorption.

2. Complete the table below in relation to the digestion of carbohydrates.

Secretion	Enzyme	Substrate	Product
Pancreatic juice			

3. In relation to proteins, explain foam formation.

Give **one** culinary example of foam formation.

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4. Describe how the chemical structure of cis fatty acids and trans fatty acids differ.

5. Outline **three** guidelines to follow to achieve a light pastry.

(i)
(ii)
(iii)

6. In relation to freezing, describe quick-freezing.

Give **one** advantage of quick-freezing.

7. State a different benefit of each of the following types of food packaging:

Food packaging	Benefit
Polystyrene	
Glass bottle	
Waxed carton	

8. Identify **one** moist method of cooking suitable for fish.

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Describe the underlying principle of the cooking method named.

9. Outline the function of each of the following in relation to food additives:

Anti-caking agent
Emulsifier

10. In relation to an individual's income, explain each of the following:

Pay Related Social Insurance (PRSI)
Universal Social Charge (USC)

11. Name **one** statutory consumer protection agency.

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Outline the role of the statutory agency named.

12. Name **two** types of life assurance.

(i)
(ii)

Identify **one** difference between the two types of life assurance named.

13. State **two** pieces of information that should be found on a permanent label under the Fire Safety (Domestic Furniture) Order (1988, 1995).

(i)
(ii)

14. What information does each of the following symbols convey to the consumer?



Green dot
(www.wikimedia.org)



Eco label
(www.therecyclers.com)

Answerbook for Sections B and C

Instructions

Questions for **Sections B** and **C** are supplied separately.

Start each question on a new page. Write the question number in the box at the top of each page. Use the left-hand column to label each part, as shown below.

Question	
04	
Start each question on a new page	
Part	
(a)	
(b)(i)	
(b)(ii)	

You do not need to use all of the pages in this answerbook. If you run out of space in this answerbook, you may ask the superintendent for more paper.

Write your answers in blue or black pen. You may use pencil for sketches, graphs and diagrams only.

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Part

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Leaving Certificate – Higher Level

**Home Economics – Scientific and Social
Section A and Answerbook**

Wednesday 8 June

Afternoon 2:00 - 4:30



Coimisiún na Scrúduithe Stáit State Examinations Commission

LEAVING CERTIFICATE EXAMINATION 2022

Home Economics – Scientific and Social

HIGHER LEVEL

Section B and Section C

WEDNESDAY 8 JUNE

AFTERNOON 2:00 – 4:30

Section B

130 marks

Answer **Question 1** and **one** question from questions 2, 3, 4 and 5.

Question 1 is worth 80 marks.

Questions 2, 3, 4 and 5 are worth 50 marks each.

Section C

40 or 80 marks

Answer **one** elective question **or** Question 4 (core), to include **part (a)** and either **part (b) or part (c)**.

If you submitted *Textiles, Fashion and Design* coursework for examination, you may only attempt Question 2 from this section.

Electives 1 and 3 are worth 80 marks each.

Elective 2 is worth 40 marks.

Question 4 (core) is worth 80 marks.

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State Examinations Commission.

Answer **Question 1** and **one** question from questions 2, 3, 4 and 5.

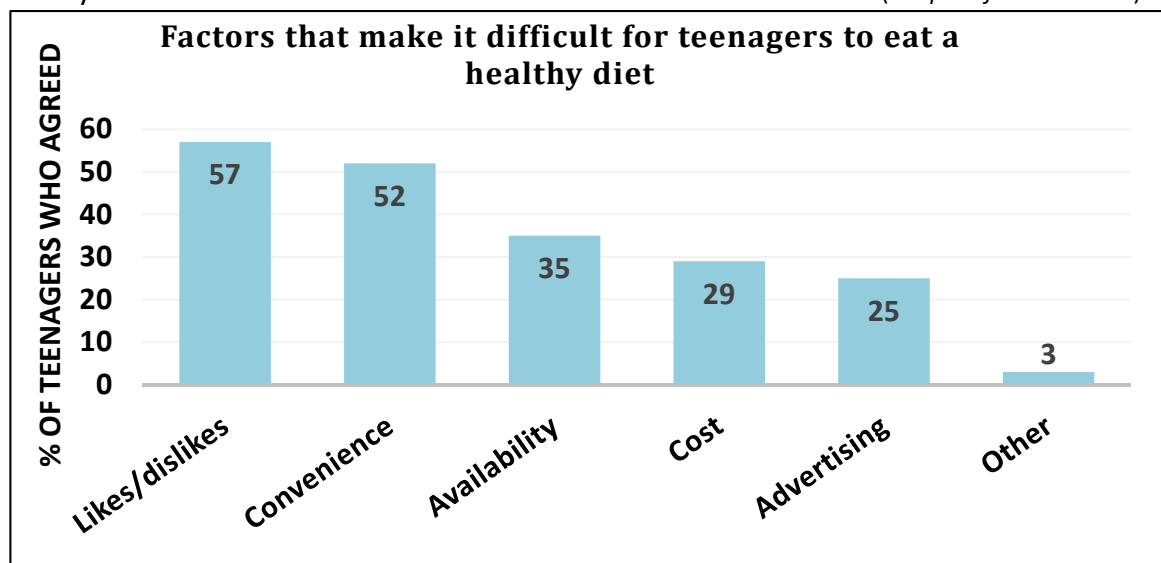
Question 1 is worth 80 marks. Questions 2, 3, 4 and 5 are worth 50 marks each.

Write your answer in the answerbook containing **Section A**.

Question 1

‘Health-related habits developed during teenage years tend to persist into adulthood.’ (*iuna.net*)

The National Teens Food Survey II highlights the difficulties teenagers experience when trying to eat a healthy diet. (*adapted from iuna.net*)



- (a) Using the information provided in the chart, comment and elaborate on the factors that make it difficult for teenagers to eat a healthy diet. (20 marks)
- (b) Give a detailed account of the dietary measures to follow when planning and preparing meals for teenagers. (20 marks)
- (c) An adequate intake of Vitamin D is essential in a healthy diet.
Give an account of Vitamin D with reference to:
- biological functions
 - effects of deficiency
 - properties. (20 marks)
- (d) Discuss how the health status of an individual can influence their choice when purchasing foods. (20 marks)

Question 2

Vegan diets are increasing in popularity; however, these diets require careful planning.

- (a) Identify **three** nutrients that could be deficient in a vegan diet and outline a strategy to prevent the deficiency of each nutrient. (18 marks)
- (b) Set out details of an alternative protein food you have studied.
Refer to:
- name
 - stages in manufacture. (20 marks)
- (c) Indicate how European Union (EU) legislation in relation to food additives protects the consumer. (12 marks)

Question 3

Micro-organisms and enzymes have a role to play in food spoilage and food production.

- (a) Discuss the role of enzymes in relation to food spoilage. (15 marks)
- (b) Name and give details of **one** type of mould.
Refer to:
- name
 - characteristics/description
 - conditions necessary for growth. (23 marks)
- (c) Assess the uses of micro-organisms in food production. (12 marks)

Question 4

‘Homeownership is good for individuals, families and communities.’ (*Housing for All, 2021*)

- (a) Analyse the socio-economic factors that determine housing choices for potential buyers. (16 marks)
- (b) Discuss the conditions that lending institutions require for potential buyers in order to qualify for a mortgage. (24 marks)
- (c) Explain how consumers are protected by the Sale of Goods and Supply of Services Act (1980) when availing of the services of an electrician in the home. (10 marks)

Question 5

Marriage and families are recognised social structures.

- (a) Describe the legal obligations for marriage in Ireland. (16 marks)
- (b) Analyse how socio-economic factors have affected the changing roles of older family members in contemporary society. (20 marks)
- (c) State why it is important to make a will and outline the procedure involved in making a will. (14 marks)

Section C

40 or 80 marks

Answer **one** elective question **or** Question 4 (core), to include **part (a)** and either **part (b) or (c)**.

If you submitted *Textiles, Fashion and Design* coursework for examination,
you may only attempt Question 2 from this section.

Write your answer in the answerbook containing **Section A**.

Elective 1 – Home Design and Management – 80 marks

Candidates selecting this elective must answer **1(a)** and either **1(b) or 1(c)**.

1.(a) ‘Working from home in separate home offices can improve work-life balance.’

(*The Irish Times*, 2021)

- (i) Identify and describe **three** professional services that could assist individuals when modifying their home to include a home office space. (15 marks)
- (ii) Recommend a suitable floor covering that can be used in a home office.
Refer to:
- name of floor covering
 - factors to consider when selecting a floor covering
 - properties. (20 marks)
- (iii) Outline how colour, pattern and texture can be used to enhance the interior design of a room. (15 marks)

and

1.(b) ‘Proper ventilation is very important.’ (*seai.ie*)

- (i) Describe the effects of poor ventilation in the home. (12 marks)
- (ii) Recommend **one** artificial method of ventilation suitable for a kitchen.
Explain the underlying principle of this method. (18 marks)

or

1.(c) ‘25% of the energy used in Ireland is used in our homes.’ (*seai.ie*)

- (i) Set out details of solar energy as an energy supply source to the home.
Refer to:
- a system used in the home to utilise solar energy
 - merits of using solar energy
 - sustainability. (18 marks)
- (ii) Explain, giving an example, the underlying principle of a method of insulation used in the home. (12 marks)

Elective 2 – Textiles, Fashion and Design – 40 marks

Candidates selecting this elective must answer **2(a)** and either **2(b)** or **2(c)**.

2.(a) ‘Smart casual is a fusion of two contrasting dress codes.’ (*Louis Copeland*)



(www.shutterstock.com)

(i) Evaluate the design of the outfits shown in the image above.
Refer to:

- comfort
- aesthetic appeal
- lifestyle.

(15 marks)

(ii) Discuss how colour can be used to flatter body size and shape.

(10 marks)

and

2.(b)

(i) Differentiate between regenerated and synthetic fibres.

(6 marks)

(ii) Explain filament modification, giving **two** examples.

(9 marks)

or

2.(c) The functionality and aesthetic appeal of a garment has a strong influence on its design.

(i) Describe **one** method of modifying a commercial pattern to tailor it to the specific needs of an individual.

(9 marks)

(ii) Discuss how traditional crafts have influenced Irish design and the fashion industry.

(6 marks)

Elective 3 – Social Studies – 80 marks

Candidates selecting this elective must answer **3(a)** and either **3(b)** or **3(c)**.

3.(a) According to CSO data, 216 959 people were estimated to be either out of work or in receipt of the government's pandemic unemployment payment in November 2021. (*www.cso.ie*)

- (i) Define unemployment. (6 marks)
- (ii) Discuss the following as contributory factors to unemployment in Ireland. Refer to:
- changing requirements of industry
 - geographical location
 - level of consumer demand for products and services. (20 marks)
- (iii) Describe the effects of unemployment on society. (12 marks)
- (iv) Name **one** statutory initiative aimed at creating employment and outline how it helps to enhance employment options. (12 marks)

and

3.(b) 'Everyone has a right to rest and leisure.' (*UN, Universal Declaration of Human Rights*)

- (i) Analyse how young people benefit from participating in leisure activities. (12 marks)
- (ii) Name and evaluate **two** popular leisure facilities you have studied. Refer to:
- cost and value for money
 - range of facilities offered. (18 marks)

or

3.(c) The Irish education system provides a holistic education for children.

- (i) Analyse the factors that influence the educational achievement of school children. (16 marks)
- (ii) Evaluate **two** initiatives aimed at providing equality of opportunity in education with reference to early school leavers. (14 marks)

Question 4 – Core – 80 marks

Candidates selecting this question must answer **4(a)** and either **4(b)** or **4(c)**.

4.(a) 'Food waste is bad for the environment and bad for our pockets.' (*www.safefood.net*)

- (i) Discuss the nutritional significance of vegetables in the diet. (20 marks)
- (ii) Give an account of a method of home preservation suitable for vegetables.
Refer to:
- name of preservation method
 - underlying principle
 - suitable packaging. (18 marks)
- (iii) Evaluate irradiation as a commercial method of food preservation. (12 marks)

and

4.(b) 'Being on a restrictive diet should not mean a restricted food experience.' (*www.delicious.ie*)

- (i) Outline the dietary guidelines that should be followed by a person with coeliac disease. (15 marks)
- (ii) Analyse the growing popularity of speciality foods produced by small businesses in Ireland. (15 marks)

or

4.(c) Household technology has become an integral part of our lives.

- (i) Set out details of a study you have undertaken on an appliance with a heating element.
Refer to:
- construction
 - working principle
 - guidelines for use. (18 marks)
- (ii) Discuss the factors that influence consumers' decision making when purchasing large household appliances. (12 marks)

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