



Coimisiún na Scrúduithe Stáit
State Examinations Commission

Leaving Certificate Examination 2023
Home Economics - Scientific and Social
Section A and Answerbook
Higher Level

Wednesday 7 June Afternoon 2:00 - 4:30
280 or 320 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 in this examination. Questions for **Sections B and C** are supplied separately but your answers must be written in this answerbook.

Section A 60 marks
Answer any **ten** questions in this section.
Each question carries 6 marks.

Section B 180 marks
Answer **Question 1** and any other **two** questions from this section.
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 (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**60 marks**

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

Each question carries 6 marks.

Write your answers in the spaces provided.

1. State **two** biological functions of lipids.

(i)
(ii)

2. Explain the term gelatinisation and include **one** culinary example in your answer.

3. Name **two** food poisoning bacteria and give an example of a different high-risk food associated with each.

Name of food poisoning bacteria	high-risk food

4. Explain the term Basal Metabolic Rate (BMR).

Give **two** factors that affect a person's basal metabolic rate.

(i)
(ii)

5. Describe a roux-based sauce and give **one** culinary example.

6. Outline **two** benefits of including high fibre foods in the diet of adults.

(i)
(ii)

7. Describe **two** chemical changes that occur when food is cooked.

(i)
(ii)

8. Name **one** sensory analysis test used to determine a preferred product from two or more samples.

Describe **two** different uses of sensory analysis in the food industry.

(i)
(ii)

9. Outline the role of public analyst laboratories in relation to food safety.

10. Describe the Working Family Payment (WFP) (formerly Family Income Supplement) as a social welfare payment.

11. Outline **two** measures consumers can implement in their daily lives to prevent/reduce air pollution.

Measures to prevent/reduce air pollution
(i)
(ii)

- 12.** Explain the following types of mortgage interest rates.

Fixed rate
Variable rate

- 13.** Describe the importance of each of the following when selecting a savings scheme.

Interest payable
Access to funds

- 14.** Explain how the Consumer Credit Act, 1995 benefits the consumer.

(i)
(ii)

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		0 4	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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Leaving Certificate – Higher Level

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

Wednesday 7 June

Afternoon 2:00 - 4:30



Coimisiún na Scrúduithe Stáit State Examinations Commission

LEAVING CERTIFICATE EXAMINATION 2023

Home Economics – Scientific and Social

HIGHER LEVEL

Section B and Section C

WEDNESDAY 7 JUNE

AFTERNOON 2:00 – 4:30

Section B

180 marks

Answer **Question 1** and any other **two** questions from this section.

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 (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.

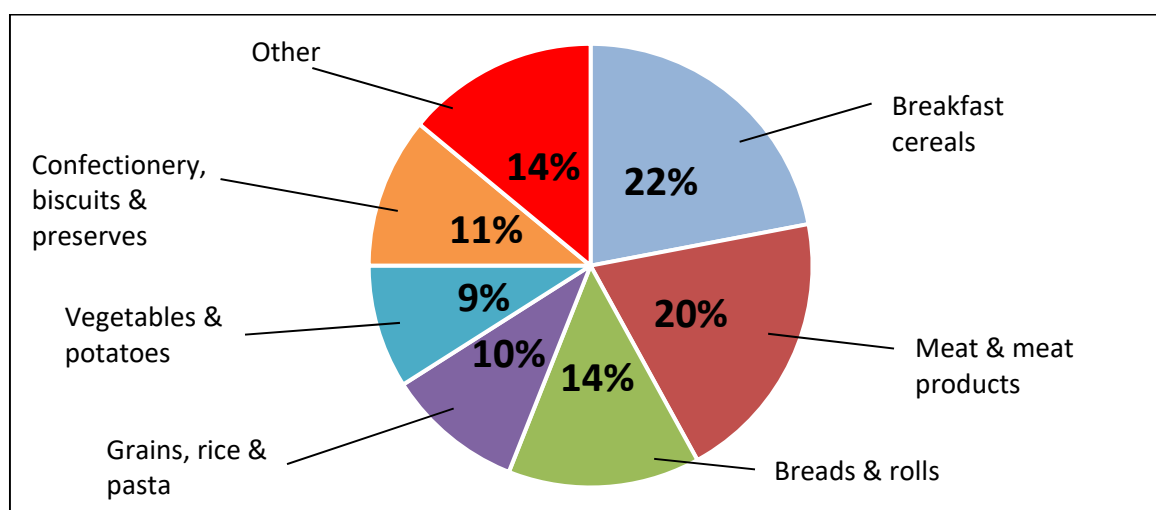
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State Examinations Commission.

Answer **Question 1** and any other **two** questions from this section.
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

‘Adequate micronutrient intake during the teenage years is important for optimum growth and development.’ (*National Teen Food Survey II Report 2021 adapted from iuna.net*)

Sources of Iron in Irish teenagers aged 13-18 years



- (a) Using the information provided in the chart, comment and elaborate on the importance of including different sources of iron in a teenagers' diet. Refer to **four** sources in your answer. (20 marks)
- (b) Identify and describe the factors that affect the absorption of iron in the body. (20 marks)
- (c) Give an account of Vitamin C with reference to:
- biological functions
 - effects of deficiency
 - properties. (20 marks)
- (d) Discuss the guidelines a family should follow, when doing their weekly shopping on a restricted budget, in order to provide for their nutritional needs. (20 marks)

Question 2

‘Nutritional experts recommend consuming 2-3 portions of fish each week for a balanced diet.’
(www.goodfoodireland.ie)

- (a) Discuss the nutritional significance of fish in the diet. (20 marks)
- (b) Give a detailed account of **one** process used to extend the shelf life of fish.
Refer to:
- name
 - underlying principle
 - effects. (18 marks)
- (c) Describe the role of the Food Safety Authority of Ireland (FSAI) in the food industry. (12 marks)

Question 3

‘People are becoming more experimental in their culinary choices.’ (www.bordbia.ie)

- (a) Discuss the factors that affect food choices for families today. (12 marks)
- (b) Profile an added value food you have studied.
Refer to:
- name
 - stages of production
 - packaging and labelling. (26 marks)
- (c) Name and describe the role of **one** physical conditioning agent used in food processing. (12 marks)

Question 4

‘Consumers must be constantly vigilant to protect themselves.’ (www.thecai.ie)

- (a) Discuss how the following factors affect the management of the home.
- stages in the life cycle of the family
 - employment patterns
 - values. (20 marks)
- (b) Analyse how different techniques used by retailers influence consumer spending. (20 marks)
- (c) Describe how the responsibilities of a consumer can assist them in making wise choices. (10 marks)

Question 5

The family is an integral social institution in society.

- (a) Discuss the changes that have taken place in the family from the middle of the twentieth century to the present day. (20 marks)
- (b) Explain the following sociological terms:
- universality of the family
 - kinship
 - monogamy. (15 marks)
- (c) Describe **one** legal option available in Ireland to couples when their marriage has broken down. (15 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) ‘Ireland’s *Better Energy Warmer Homes* scheme aims to help people make their home warmer, healthier and cheaper to run.’ (www.seai.ie)

- (i) Describe the factors that influence interior design in the home.
Refer to:
- aesthetic and comfort factors
 - environmental awareness. (20 marks)
- (ii) Discuss levels of thermal comfort in relation to **two** different living spaces in the home. (12 marks)
- (iii) Explain the underlying principle of a thermostat and describe how it can be used in the home. (18 marks)

and

1.(b) ‘Lighting ideas are an essential part of space design.’ (www.homesandgardens.com)

- (i) Describe **four** properties of light and give an example of how each property is used in the home. (20 marks)
- (ii) Explain the underlying principle of **one** type of energy-efficient lighting. (10 marks)

or

1.(c) ‘We have been forced to rethink how we live in our homes in recent years.’ (*The Irish Times*)

- (i) Discuss how environmental, economic and social factors influence the choice of housing styles in Ireland today. (18 marks)
- (ii) Describe the impact of burning fossil fuels in the home.
Refer to:
- an emission produced by burning fossil fuels
 - effects on the environment
 - a strategy households could implement in order to reduce emissions. (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) A special occasion is an opportunity for an individual to showcase their unique sense of style.

- (i) Sketch and describe an outfit to wear for your graduation ball. (12 marks)
- (ii) Suggest a suitable fabric for the outfit and give a reason for your choice. (6 marks)
- (iii) Name **one** design principle and evaluate how it applies to your outfit. (7 marks)

and

2.(b) Blended fabrics have combined properties of each component fibre.

Write a profile of **one** blended fabric.

Refer to:

- fabric production
- fabric properties
- uses. (15 marks)

or

2.(c) ‘The vintage clothing industry is growing 25 times faster than the overall retail market.’
(www.rediscoverycentre.ie)

(i) Discuss the emergence of vintage clothing as a current fashion trend.

Refer to:

- pattern
- influences
- accessories. (9 marks)

(ii) Name and give details of **one** career opportunity in the clothing and textile 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) ‘We are currently witnessing the nature of employment being redefined in Ireland and across the world.’ (*www.skillnetireland.ie*)

- (i) Discuss how technology and increasing flexibility in working hours affect patterns of work and work availability. (20 marks)
- (ii) Describe the impact of dual-earner families on family life.
Refer to:
- role overload
 - role conflict
 - distribution of parental responsibilities in the home. (15 marks)
- (iii) Recommend **one** type of child care option available to working parents.
Analyse how the chosen child care option meets the requirements of the family. (15 marks)

and

3.(b) ‘One in every nine people in Ireland lives on an income below the poverty line.’
(*poverty focus 2022, socialjusticeireland.ie*)

- (i) Analyse the following as contributory factors to poverty in Ireland today.
- cycle of deprivation in geographical areas
 - the influence of social policy on poverty. (16 marks)
- (ii) Name and give details of **two** statutory schemes that reduce expenditure for low-income families. (14 marks)

or

3.(c) ‘Contemporary society is experiencing rapid social change.’ (*Social Change Research Group, wit.ie*)

- (i) Analyse the impact of social change on the family.
Refer to:
- changing attitudes to marriage
 - parenting roles
 - increased participation of women in the workforce. (18 marks)
- (ii) Describe how the Protection of Young Persons (Employment), Act 1996 offers protection to young people in work. (12 marks)

Question 4 – Core – 80 marks

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

4.(a) ‘The meat sector in Ireland is one of the most important industries in the national economy.’
(*www.ibec.ie*)

- (i) Discuss the measures that have been implemented in the Irish food industry to ensure meat is safe for consumption. (12 marks)
- (ii) Meat is a versatile food and can be cooked in a variety of ways. Evaluate **one** method of cooking meat. Refer to:
- name of cooking method
 - underlying principle
 - how the cooking method chosen affects the meat. (24 marks)
- (iii) Identify a type of material suitable for packaging perishable foods. Assess the suitability for purpose and environmental impact of the material identified. (14 marks)

and

4.(b) Everyday living includes many transactions that require consumer spending.

- (i) Evaluate the socio-economic factors that impact household expenditure. (15 marks)
- (ii) Describe how the state assists the family in carrying out its economic function in society. (15 marks)

or

4.(c) ‘Irish people are cooking more at home, and how we shop for food, cook and eat has changed significantly.’ (*The Irish Times*)

- (i) Evaluate the contribution of the microwave oven to the management of the home. (15 marks)
- (ii) Describe the working principle of the microwave oven. (15 marks)

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Section B and Section C**

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