

Write your Examination Number here

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2018. M48



# Coimisiún na Scrúduithe Stáit State Examinations Commission

Leaving Certificate Examination, 2018

**HOME ECONOMICS – SCIENTIFIC AND SOCIAL**

**HIGHER LEVEL**

<b>CENTRE STAMP</b>

**WEDNESDAY, 6 JUNE – AFTERNOON 2:00 to 4:30**

**280/320 MARKS**

## *Instructions to Candidates*

**Section A** There are **twelve questions** in this section.

Answer any **ten questions**.

Each question carries **6 marks**.

Write your answers in the spaces provided on the examination paper.

**Section B** There are **five questions** in this section.

Answer **Question 1 and any other two questions**.

**Question 1** is worth **80 marks**.

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

Write your answers in the separate answer book provided.

**Section C** There are **three questions** in this section.

Answer **one** elective question, 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**.

Write your answers in the separate answer book provided.

**You must return this examination paper with your answer book at the end of the examination.**

## Section A

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

Each question is worth 6 marks.

Write your answers in the spaces provided.

1. Complete the table below in relation to the digestion of carbohydrates. (6)

Organ	Enzyme	Substrate	Product
Pancreas			
Small Intestine			

2. State **three** functions of Vitamin C in the body. (6)

(i) \_\_\_\_\_

\_\_\_\_\_

(ii) \_\_\_\_\_

\_\_\_\_\_

(iii) \_\_\_\_\_

\_\_\_\_\_

3. Name **two** proteins found in meat. (6)

(i) \_\_\_\_\_ (ii) \_\_\_\_\_

Outline **two** effects of cooking on protein in meat.

(i) \_\_\_\_\_

\_\_\_\_\_

(ii) \_\_\_\_\_

\_\_\_\_\_

4. Outline the role of energy in the body. (6)

(i) \_\_\_\_\_

\_\_\_\_\_

(ii) \_\_\_\_\_

\_\_\_\_\_

(iii) \_\_\_\_\_

\_\_\_\_\_

5. Explain the significance of the following symbol to the consumer. (6)



\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Name **two** products that use this symbol on their labelling.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

6. Complete the table below in relation to processed food.  
Give **one** example of a different food / product in each case. (6)

	Food / Product
Foods that are extensively processed	
Foods processed to extend shelf life	
Fortified foods	

7. Explain **each** of the following methods of heat transfer when cooking food. (6)

Conduction \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Convection \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

8. State the temperature range for optimum growth for **each** of the following groups of micro-organisms. (6)

Psychrophiles	
Mesophiles	
Thermophiles	

9. Suggest **two** textiles suitable for use in the home and state **one** property of each. (6)

Textile	Property

Name **one** fire retardant finish used on household textiles.

\_\_\_\_\_

10. Explain how advertising affects consumers' buying behaviour. (6)

(i) \_\_\_\_\_

\_\_\_\_\_

(ii) \_\_\_\_\_

\_\_\_\_\_

11. State **two** advantages of regular saving. (6)

(i) \_\_\_\_\_

\_\_\_\_\_

(ii) \_\_\_\_\_

\_\_\_\_\_

Name **two** saving schemes offered by financial institutions.

(i) \_\_\_\_\_ (ii) \_\_\_\_\_

12. In relation to a person's income, explain **each** of the following: (6)

Tax Credit \_\_\_\_\_

\_\_\_\_\_

USC \_\_\_\_\_

\_\_\_\_\_

## Section B

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.

1. Calorie menu labelling in restaurants can help combat obesity even where only modest changes occur in consumer behaviour. *(Calories on menus in Ireland, FSAI)*

**Sample Main Course Menu**

<p style="text-align: center;"><b>Grilled Irish Salmon</b></p> <p>Irish salmon steak with pepper or basil butter or sticky honey, lime &amp; chilli. Served with baby potatoes &amp; peas.</p> <p style="text-align: center;"><b>387 calories</b></p>	<p style="text-align: center;"><b>Chicken Tikka Masala</b></p> <p>Creamy tikka masala sauce over marinated chicken breast. Served with basmati rice, naan bread, mango chutney &amp; poppadoms.</p> <p style="text-align: center;"><b>883 calories</b></p>	<p style="text-align: center;"><b>Beer Battered Fish &amp; Chips</b></p> <p>Fresh beer battered fish. Served with chips, mushy peas, lemon &amp; tartare sauce.</p> <p style="text-align: center;"><b>880 calories</b></p>
<p style="text-align: center;"><b>Chilli Con Carne</b></p> <p>Irish beef mince chilli. Served with basmati rice &amp; tortilla chips.</p> <p style="text-align: center;"><b>662 calories</b></p>	<p style="text-align: center;"><b>Roast Vegetable Pasta</b></p> <p>Tomatoes, courgettes and peppers in a tomato sauce over penne pasta, finished with cheddar cheese. Served with garlic bread.</p> <p style="text-align: center;"><b>747 calories</b></p>	<p style="text-align: center;"><b>Fish Pie</b></p> <p>White fish, smoked haddock &amp; salmon in a creamy white sauce topped with mashed potatoes &amp; cheese. Served with fresh bread.</p> <p style="text-align: center;"><b>756 calories</b></p>

- (a) With reference to the sample menu above, comment and elaborate on the suitability of the menu options for a person on a weight reducing diet. In your answer, suggest modifications to the dishes for a healthier menu. (24)
- (b) In relation to lipids, state the elemental composition **and** describe the chemical structure of a triglyceride. (9)
- (c) Describe the structure and give **one** example of **each** of the following:
- saturated fatty acids
  - monounsaturated fatty acids
  - polyunsaturated fatty acids. (18)
- (d) Outline the significance of fatty acids in the diet. (9)
- (e) The aim of food labelling is to provide consumers with information which may influence their purchasing decisions.
- In addition to nutritional information, discuss the reasons why consumers consult food labels on pre-packaged food prior to purchase. (20)

2. Vegetarian diets are a popular choice with many individuals and families.
- (a) In relation to vegetarian diets discuss:
- classes / types
  - specific dietary requirements
  - benefits of a vegetarian diet. (30)
- (b) Name and describe **two** novel (alternative) protein foods that can be used in vegetarian diets. (8)
- (c) Outline the manufacture / production of **one** novel (alternative) protein food. (12)
3. Many modern processed products such as low calorie, snack and ready to eat convenience foods, would not be possible without the use of food additives.
- (a) What is a processed food?  
Evaluate the merits of incorporating processed foods in the diet. (20)
- (b) Give an informative account of flavourings **and** antioxidants.  
Refer to:
- classes / types
  - examples
  - functions
  - use. (20)
- (c) Explain how the use of food additives is regulated by European Union (EU) legislation. (10)

4. Smart home technology is the automation and management of your home and daily life.
- (a) Discuss how technology has contributed to the efficient management of the home. (20)
- (b) Set out details of a study that you have undertaken on a refrigeration appliance. Refer to:
- working principle
  - guidelines for use
  - modern features. (22)
- (c) Evaluate the role of energy labelling when selecting household appliances. (8)
5. 'There can be no keener revelation of a society's soul than the way in which it treats its children'. (Nelson Mandela)
- (a) Identify and explain the rights of children in society today. (16)
- (b) Discuss the possible causes of conflict between adolescents and adults. Suggest strategies for resolving this conflict. (24)
- (c) Outline the protection available for families under the Family Law (Maintenance of Spouses and Children) Act, 1976. (10)



## Section C

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

### **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)** According to CSO figures, 896 families were homeless on census night including 1,726 children in those families. *(Central Statistics Office, 2016)*
- (i)** Outline the housing requirements necessary to meet the needs of people who are homeless. (16)
- (ii)** Give an informative account of the quality of accommodation provided in **each** of the following housing sectors:
- private housing sector / owner occupied
  - private rental sector. (18)
- (iii)** Discuss the importance of house building standards with reference to how building standards are regulated. (16)

**and**

- 1.(b)** Well-chosen floor coverings provide style and beauty and improve the aesthetics of a room.
- (i)** Outline **four** factors that should be considered when selecting floor coverings for a home. (12)
- (ii)** Describe **three** types of flooring / floor coverings used in the home. List the properties of **each**. (18)

**or**

- 1.(c)** Sustainable energy improves people's lives, brings comfort and convenience and addresses environmental challenges. *(Sustainable Energy Authority of Ireland)*
- (i)** Identify and elaborate on **three** sources of energy supply to the home. Comment on the sustainability of **each** of these energy sources. (15)
- (ii)** Give an account of the emissions produced from burning fuels in the home **and** the effect these emissions have on the environment. (15)

## 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)** 'Fashion is a trend, style lives within a person.' (Oscar de la Renta)



(Adored Vintage: Runway Report/Sonia Rykiel)

- (i) Assess the role of fashion as an expression of personality, with reference to the picture above. (15)
- (ii) Analyse the technological influences on the design and construction of clothing. (10)

**and**

**2.(b)** Natural fibres are a sustainable resource as they can be used without depleting or damaging the environment.

- (i) Classify natural fibres, giving examples **and** uses in each case. (9)
- (ii) Explain how fibres can be identified using a burning test.  
Give **one** example. (6)

**or**

**2.(c)** A commercial pattern reflects the designer's vision for the outfit.

- (i) Suggest reasons why commercial patterns may require modification. (9)
- (ii) Describe **one** method of modification to a commercial pattern. (6)

## Elective 3 – Social Studies (80 marks)

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

**3.(a)** The demand for education is growing. Adults with higher educational attainment have better economic outcomes. *(Education at a Glance 2017, OECD)*

- (i) Name and describe **two** programmes provided in second level education. Refer to:
- curriculum offered
  - assessment / examination system. (20)
- (ii) Analyse the factors that influence educational achievement. (15)
- (iii) Evaluate equality of opportunity in second level education with reference to students at risk of disadvantage and social exclusion. (15)

**and**

**3.(b)** Volunteering enriches individuals' lives and the communities in which they live.

- (i) Discuss, with examples, how a community can benefit from the work of volunteers. (15)
- (ii) Explain how a volunteer can benefit personally by participating in community projects. (15)

**or**

**3.(c)** Leisure is an important component of daily life and a core ingredient for overall well-being.

- (i) Discuss the value of leisure in today's society. (15)
- (ii) Analyse the social and cultural factors that influence an individual's choice of leisure activities. (15)

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