

Write your Examination Number here

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2009. M48



**Coimisiún na Scrúduithe Stáit  
State Examinations Commission**

**Leaving Certificate Examination 2009**

**HOME ECONOMICS – SCIENTIFIC AND SOCIAL  
HIGHER LEVEL**

<b>CENTRE STAMP</b>

**WEDNESDAY, 3 JUNE – AFTERNOON, 2.00 to 4.30**

**280/320 MARKS**

*Instructions to Candidates*

- Section A** There are **twelve** questions in this section.  
Candidates are required to 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.  
Candidates are required to 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.  
Candidates are required to answer **one** elective question to include **part (a)** and either **part (b) or part (c)**.  
**Candidates who submitted Textiles, Fashion and Design coursework for examination 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 your 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. In relation to carbohydrate explain the property *dextrinisation*. (6)

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2. Identify a vitamin necessary for the absorption of **each** of the minerals listed below. (6)

Mineral	Vitamin
Calcium	
Iron	

3. Give **three** specific dietary guidelines for a person with diabetes. (6)

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

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

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

4. Listed below are **three** properties associated with eggs and food preparation. Give **one** practical application of each property. (6)

Property	Application in Food Preparation
Coagulation	
Aeration	
Emulsification	

5. State the function of **each** of the following in relation to the processing of milk. (6)

(i) *Homogenisation* \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(ii) *Sterilisation* \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

6. Define fermentation. (6)

\_\_\_\_\_  
\_\_\_\_\_

Name **two** by-products of fermentation.

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

7. List **two** physical changes that occur during the cooking of food and give **one** example of each. (6)

<b>Physical Change</b>	<b>Example</b>

8. Outline **two** uses of sensory analysis in the food industry. (6)

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

Name **one** sensory analysis test used to detect differences in food samples.

\_\_\_\_\_

9. Explain the purpose of resource management. (6)

\_\_\_\_\_

\_\_\_\_\_

Give **one** example of efficient family resource management.

\_\_\_\_\_

\_\_\_\_\_

10. Give details of **two** merchandising techniques used by retailers to encourage consumer spending. (6)

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

11. Explain **each** of the following state benefits and give **one** example of each. (6)

*Social insurance payments* \_\_\_\_\_

\_\_\_\_\_

Example \_\_\_\_\_

*Social assistance payments* \_\_\_\_\_

\_\_\_\_\_

Example \_\_\_\_\_

12. State **one** advantage of using renewable energy sources. (6)

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Name **two** forms of renewable energy.

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

## 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. 'The key to a nutritionally adequate vegetarian diet is balance, ensuring that where foods are specifically omitted, suitable alternatives are included so that dietary quality is not compromised.'  
(British Nutrition Foundation, Nutrition Bulletin 30)

The following table provides information on the nutritive value of minced beef and quorn mince.

(Nutritional information per 100g).

	Energy	Protein	Fat	CHO	Fibre	Vitamins	Minerals
Minced Beef (raw)	225 kcal	19.7g	16.2g	0	0	B Group	Iron 1.4mg Sodium 80mg
Quorn Mince	94 kcal	14.5g	2.0g	4.5g	5.5g	0	Sodium 100mg

- (a) Using the information provided in the table, evaluate the contribution of quorn mince to the diet of vegetarians. (24)
- (b) (i) Using quorn mince, plan and set out the menu for a balanced three course meal suitable for a vegan.  
(ii) Indicate how the dishes selected meet the requirements of a vegan diet. (15)
- (c) Vitamin B12 is sometimes lacking in the diet of vegetarians.  
Give an account of *vitamin B12 (cobalamin)* and refer to:
- sources in the diet
  - properties
  - biological functions. (21)
- (d) Describe some of the measures taken by food manufactures / retailers in order to meet the needs of consumers who have specific dietary requirements. (20)

2. **‘There can be no compromise on food safety and consumers’ health has to be protected. Small businesses can produce safe food of high quality but their viability is threatened by a very competitive market place, not the cost of compliance with food safety regulations alone.’** *(FSAI)*
- (a) Discuss the role of small businesses and home enterprises within the Irish food industry. **(16)**
- (b) Write a profile of an “added value” food you have studied.  
Give details of **each** of the following:
- stages of production
  - packaging
  - labelling. **(26)**
- (c) Give a brief account of the role of the Food Safety Authority of Ireland (FSAI). **(8)**
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3. **‘Whether it is pesticides in vegetables, microbes in cooked food products or a breakdown in the food safety management system, hazards can exist anywhere in the supply chain.’** *(www.goodfoodireland.ie)*
- (a) Outline the main causes of food spoilage. **(12)**
- (b) Explain how the action of enzymes can be controlled in order to prevent food spoilage. **(20)**
- (c) In relation to food poisoning explain **each** of the following:
- incubation period
  - toxic food poisoning
  - infectious food poisoning. **(18)**

- 4. Today's kitchen appliances must offer convenience, technology and style that keep up with the way we live.**
- (a) Discuss how technology has contributed to the efficient management of the home. **(16)**
- (b) Set out details of a study you have undertaken on one type of electrical appliance suitable for a kitchen.  
Refer to:
- type of appliance
  - working principle
  - guidelines for use
  - energy efficiency. **(26)**
- (c) Explain how the rights of the consumer are protected by the Sale of Goods & Supply of Services Act (1980). **(8)**
- 5. Marriage is an important social institution because it is central to the family system. It confers certain rights and responsibilities on partners.**
- (a) Identify and elaborate on the rights and responsibilities of a couple within a marriage relationship. **(20)**
- (b) Discuss the benefits of pre-marriage courses for couples preparing for marriage. **(18)**
- (c) Explain how Irish family law protects the rights of family members in the event of marriage breakdown. **(12)**

## Section C

Answer one elective question from this section.

Candidates who submitted Textiles, Fashion and Design coursework for examination may only attempt Question 2.

### 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) **Self-building can be the most effective way to get the house of your dreams at a price you can afford.**
- (i) Discuss (i) the economic and (ii) the environmental factors that influence the choice of housing styles. (24)
  - (ii) Describe the role of **three** professional services available to assist people who are designing / building their own home. (18)
  - (iii) Outline the benefits of the National House Building Guarantee Scheme to the home owner. (8)
- and**
- 1.(b) **‘Higher fuel prices, lower incomes and poor energy efficiency will result in more and more people being unable to heat their homes.’**  
*(Irish Independent 12<sup>th</sup> June 2008)*
- (i) Homes can be heated by one or a combination of heating systems. Identify **two** heating options available and comment on the merits of each. (14)
  - (ii) Recommend **one** method of insulation suitable for **each** of the following areas of the home:
    - attic
    - windows.State the underlying principle of **each** method of insulation. (16)
- or**
- 1.(c)
- (i) Outline the factors to be considered when choosing furniture for a family living room. In your answer include reference to **two** principles of design. (18)
  - (ii) Describe **one** solid wood used in the home and refer to:
    - type of wood
    - properties
    - uses. (12)

**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) Today's consumer demands drive tomorrow's fashion.**

- (i) Discuss how the design and construction of clothing is influenced by **each** of the following:
- social factors
  - economic factors
  - industrial factors. **(15)**
- (ii) Elaborate on the factors that influence current *ready to wear* fashion. **(10)**

**and**

**2.(b) The elements of design are tools used by designers and clothing manufacturers to enhance the appearance of garments.**

- (i) Name **three** elements of design. **(6)**
- (ii) Explain how **each** element named may affect the appearance of an outfit. **(9)**

**or**

- 2.(c)** (i) Describe the construction of **one** type of knitted fabric. **(7)**
- (ii) Name **two** finishes that may be applied to fabrics and state **one** advantage of **each** finish. **(8)**

### Elective 3 - Social Studies (80 marks)

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

**3.(a) 'Ireland is now facing the most severe economic downturn and unemployment crisis since the 1980's.'** *(Irish Independent 8<sup>th</sup> March 2008)*

- (i) Define unemployment and comment on the extent of unemployment in Ireland today. (14)
- (ii) Analyse the causes of unemployment. (24)
- (iii) Name and give details of **one** statutory initiative aimed at creating employment. (12)

**and**

**3.(b) A rapidly changing society makes new demands on the State to deliver a school that reflects the diversity of the community it serves.**

- (i) In relation to the above statement, analyse how the supports provided in schools accommodate the educational requirements of
  - pupils with special needs **and**
  - pupils from different ethnic backgrounds. (18)
- (ii) Outline the contribution of education to the socialisation of young children. (12)

**or**

- 3.(c)**
- (i) Describe how (a) age and (b) gender impact on a person's choice of leisure activities. (12)
  - (ii) Name and evaluate **two** leisure facilities available in your community.  
Refer to:
    - cost and value for money
    - the range of facilities offered. (18)

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