

Write your Examination Number here

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M 47



**Coimisiún na Scrúduithe Stáit
State Examinations Commission**

Leaving Certificate Examination, 2004

HOME ECONOMICS – SCIENTIFIC AND SOCIAL

ORDINARY LEVEL

CENTRE STAMP

FRIDAY, 11 JUNE – AFTERNOON, 2.00 to 4.30

280/320 MARKS

Instruction 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. (a) State **two** functions of lipids in the body. (4)

(i) _____

(ii) _____

- (b) Name **one** dietary source of each of the following lipids: (2)

Vegetable _____

Marine _____

2. (a) Suggest **one** use in food preparation for the following carbohydrates: (4)

Type of carbohydrate	Use in food preparation
Sugar	
Starch	

- (b) Name a digestive enzyme that converts starch into maltose. (2)

3. (a) State **two** functions of Vitamin A. (4)

(i) _____

(ii) _____

- (b) List **two** good dietary sources of Vitamin A. (2)

(i) _____

(ii) _____

4. (a) List **four** dietary guidelines that should be considered when planning meals for teenagers. (4)

(i) _____

(ii) _____

(iii) _____

(iv) _____

(b) Name **one** diet-related condition associated with nutritional imbalance. Suggest **one** cause of this condition. (2)

Condition _____

Cause _____

5. (a) List **two** factors that affect the tenderness of meat. (2)

(i) _____

(ii) _____

(b) Suggest **two** ways of tenderising meat. (4)

(i) _____

(ii) _____

6. Name **three** different methods of preserving food and give an example of a food preserved by **each** method. (6)

Method of preservation	Example of food

7 (a) Name **two** main types of micro-organisms that are responsible for food spoilage. (4)

(i) _____ (ii) _____

(b) Name **two** natural preservatives. (2)

(i) _____ (ii) _____

8. State **three** uses of eggs in food preparation and give an example of each. (6)

Uses of eggs	Example

9. Name **two** methods of paying for goods and services. State **one** advantage and **one** disadvantage of each method. (6)

(a) **Method of payment** _____

Advantage _____

Disadvantage _____

(b) **Method of payment** _____

Advantage _____

Disadvantage _____

10. (a) Explain the term *PRSI*. (2)

(b) List two *PRSI* benefits. (4)

(i) _____

(ii) _____

11. (a) State the purpose of energy labelling on electrical appliances. (2)

(b) Name two electrical appliances that must display an energy label. (4)

(i) _____

(ii) _____

12. (a) Name one law that protects the rights of the consumer. (2)

(b) State the function of the Small Claims Procedure. (4)

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. *Recent studies suggest that 36% of Irish women consume less than the average daily requirement of calcium.* (National Dairy Council).

The table below illustrates the calcium content of a range of foods.

Food	Calcium (mg per 100 g/100mls)
Milk	115
Cheddar cheese	720
Cottage cheese	60
Fruit yoghurt	180
Canned sardines	550
Canned salmon	98
Cabbage	57
Baked beans	53
Broccoli	76
Stewed rhubarb	84
White bread	100
Muesli	200
Special K	42
Fortified orange juice	122

- (a) Why is it important to include calcium in the diet? (12)
- (b) State **three** effects of a diet that is deficient in calcium. (12)
- (c) Name **one** nutrient that is necessary for the absorption of calcium. (6)
- (d) The recommended dietary allowance (RDA) of calcium for a pregnant woman is 1200mg.
Using the information from the table above, prepare a set of menus for one day (three meals) for a pregnant woman to ensure an adequate supply of calcium.
(Other foods can be added). (18)
- (e) State how the menus you have prepared meet the general nutritional requirements of a pregnant woman. (12)
- (f) Explain how any **two** of the following affect consumers' decision-making when shopping:
(i) money available
(ii) advertising
(iii) discount offers. (20)

2. *An increasing number of adults are eating four or more portions of fruit and vegetables each day, but consumption of vegetables among young people is still lower than the recommended intake.*
- (a) Suggest some interesting ways of including fruit and vegetables in the diet of young people. (8)
 - (b) Classify vegetables and give **one** example of each class. (12)
 - (c) Discuss **four** reasons why it is important to include an adequate amount of fruit and vegetables in the diet. (16)
 - (d) (i) Name **two** types of food additives used in processed fruit / vegetables.
(ii) Explain why food additives are used in the manufacture of food. (14)
3. *“80% of people live in houses that are not adequately insured.”
(Consumer Choice, February 2001).*
- (a) Outline the advantages to the householder of having adequate insurance cover. (12)
 - (b) Name and describe **two** different types of household insurance. (14)
 - (c) Give an account of the factors that affect an individual’s choice of accommodation.
Refer to:
 - (i) social factors
 - (ii) economic factors
 - (iii) trends in housing developments. (24)

4. ***Responsible consumers are environmentally aware and realise the impact of their behaviour on the environment.***

- (a) List **three** consumer responsibilities. (9)
- (b) Compile a set of guidelines outlining how the consumer can protect the environment. (12)
- (c) Identify **two** different types of pollution. In relation to **each** type of pollution state (i) the possible causes and (ii) the effects on the environment. (20)
- (d) Name and describe any **one** government initiative that has helped to reduce pollution and promote a greener environment. (9)

5. ***The care and rearing of children is one of the main functions of the family.***

- (a) Explain how parents provide for (i) the physical and (ii) the psychological needs of young children. (12)
- (b) Outline how relationships with family members change during adolescence. (12)
- (c) Suggest how conflict between adolescents and parents can be dealt with. (10)
- (d) Discuss the importance of good communication within the family. (16)

Section C

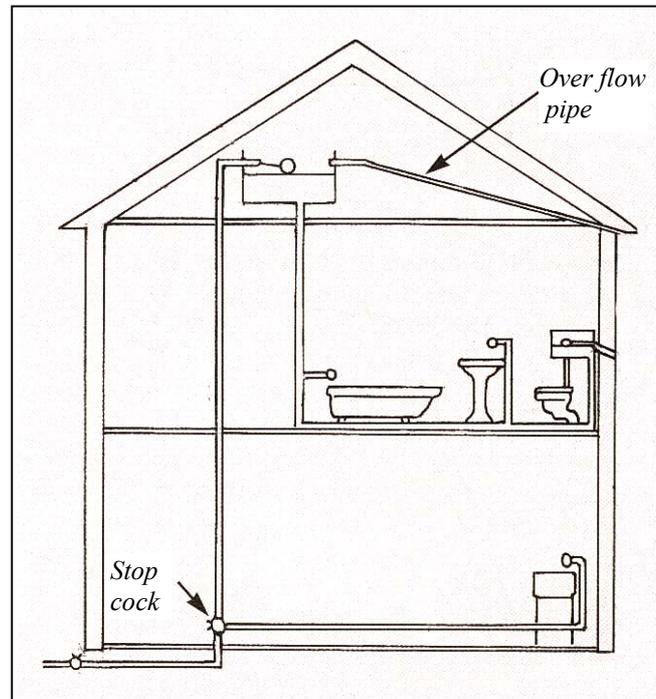
Answer one question from this section.

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) The diagram shows the cold water supply to a house.



- (i) Using the diagram describe the domestic cold water supply. (16)
- (ii) Explain: (a) why the storage tank is situated in the attic (10)
(b) why the mains water is supplied directly to the kitchen sink. (8)
- (iii) State the function of (a) the overflow pipe **and** (b) the stopcock. (8)
- (iv) State **two** precautions that should be taken to prevent the cold water supply freezing in winter. (8)
- (v) Describe **two** methods used by Local Authorities to make water safe. (8)

and

1. (b) (i) Outline the factors that should be considered when planning a lighting system for a room. (16)
- (ii) State the advantages and disadvantages of compact fluorescent lights (CFLs). (8)
- (iii) Recommend **two** modern light fittings for a student's bedroom. (6)

or

1. (c) *Paul is a single male who has just moved to the city to start a new job. He cannot drive but needs to travel home each weekend to fulfil sporting commitments.*

- (i) What type of accommodation would you recommend for Paul? Give reasons for your choice. (15)
- (ii) Name and describe **three** professional services that are available to assist in the design and building of a new house. (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) *A fast food restaurant has asked a clothing manufacturer to design and produce a new shirt for its counter staff.*

Fabric A and Fabric B are being considered.

	Fabric A	Fabric B
Fabric	Cotton (knitted)	Polyester cotton (woven)
Fabric Properties	<ul style="list-style-type: none"> ▪ Soft to wear ▪ Crease resistant ▪ Very absorbent ▪ Poor stain resistance 	<ul style="list-style-type: none"> ▪ Lightweight ▪ Strong ▪ Low absorbency ▪ Excellent stain resistance ▪ Good crease resistance
Fabric Care	<ul style="list-style-type: none"> ▪ Machine wash ▪ Can be tumble dried ▪ Medium to hot iron 	<ul style="list-style-type: none"> ▪ Machine wash ▪ Can be drip dried ▪ Non-iron finish applied to fabric
Cost	<ul style="list-style-type: none"> ▪ Inexpensive 	<ul style="list-style-type: none"> ▪ Medium price

- (i) Using the information in the table above recommend a fabric for the shirt. Give reasons for your choice. (10)
- (ii) Sketch the shirt and describe how **two** elements of design have been applied in the design of the shirt. (9)
- (iii) Suggest **one** method that could be used to apply the company logo to the shirt. Give a reason for your choice. (6)

and

2. (b) *Current fashion trends have increased the popularity of natural fabrics.*

- (i) Write a profile of a natural fabric using the following headings: (10)
- fibre production
 - fabric construction technique.
- (ii) Name and describe **one** colour application method suitable for children's clothing. (5)

or

2. (c) *Each decade has its own influence on fashion design.*

- (i) Discuss **three** major influences on teenage fashion. (9)
- (ii) Give details of **two** career opportunities available in the clothing and fashion industry. (6)

Elective 3- Social Studies (80 marks)

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

3. (a) *Settlement patterns in modern Ireland have changed. In the 1900s 70% of the population lived in rural areas. In 2002 almost 60% of the population live in urban areas.* (Census of Population, 2002).
- (i) Give an account of the reasons why more people in modern Ireland are living in urban areas. (16)
 - (ii) Discuss the impact on family life of:
 - (a) more people living in urban areas and less people living in rural areas
 - (b) improvements in social welfare entitlements. (24)
 - (iii) Name and give details of any one organisation that helps the creation of employment in rural areas. (10)

and

3. (b) *“an estimated 6000 premature deaths occur in Ireland each year as a result of poverty and inequality”* (Irish Independent, May 2003).
- (i) State what you understand by (i) poverty and (ii) inequality. (8)
 - (ii) Identify two groups most at risk of poverty in Ireland and give reasons. (10)
 - (iii) Describe the effects of poverty on children. (12)

or

3. (c)
- (i) Give a brief account of three factors that influence a person’s attitude to work. (12)
 - (ii) State the difference between intrinsic and extrinsic job satisfaction. (8)
 - (iii) Comment on the effects of unemployment on the individual. (10)

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