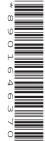




Cambridge IGCSE[™]

CANDIDATE NAME					
CENTRE NUMBER			CANDIDATE NUMBER		



FOOD & NUTRITION

Paper 1 Theory May/June 2025

2 hours

0648/12

You must answer on the question paper.

No additional materials are needed.

INSTRUCTIONS

- Section A: answer all questions.
- Section B: answer all questions.
- Section C: answer one question.
- Use a black or dark blue pen. You may use an HB pencil for any diagrams or graphs.
- Write your name, centre number and candidate number in the boxes at the top of the page.
- Write your answer to each question in the space provided.
- Do **not** use an erasable pen or correction fluid.
- Do not write on any bar codes.

INFORMATION

- The total mark for this paper is 100.
- The number of marks for each question or part question is shown in brackets [].

This document has 12 pages.

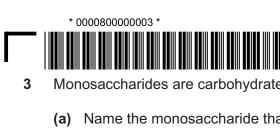
Section A

2

Answer all questions.

You are advised to spend no longer than 45 minutes on Section A.

1	Sta	te the	e term used to describe the food that is normally eaten every day.	
				[1]
2	Pro	tein i	is a nutrient essential to life.	
	(a)	Exp	plain why some proteins have a higher biological value (HBV) than others.	
				[3]
	(b)	(i)	Name two different animal foods that are a source of HBV protein.	
			1 2	
				[2]
		(ii)	Name three different plant foods that are a source of HBV protein. 1	
			2	
			3	[3]
	(c)		ung children are very active and require a good supply of protein in their diet to protergy.	
		Exp	plain one other reason why young children require a good supply of protein in their die	t.
				[2]
			[Total:	



Monosaccharides are carbohydrates that provide the body with energy.

3

(a)	Name the monosaccharide that should be eaten to give an immediate release of energy.
	[1]
(b)	Name two enzymes involved in the digestion of carbohydrates.
	1
	2
	[2]
	[Total: 3]
Fats	s and oils are classified into three groups. Saturated fat is one group.
(a)	Name the two other groups of fats and oils.
	1
	2
	[2]
(b)	Identify four health issues that could result from a diet high in saturated fat.
	1
	2
	3
	4
	[4]

[Total: 6]



5 Vitamin B₁ is also known as thiamin.

(a)	State the name of vitamin B ₁₂ .	Γ 1 .
(b)	State three functions of vitamin B ₁₂ in the body.	[1]
	1	
	2	
	3	[3]
(c)	Explain why some vegans may suffer from a deficiency of vitamin B ₁₂ .	
		[2]
		[Total: 6]
Min	erals are essential nutrients to include in a balanced diet.	
(a)	State four different reasons why it is important to include calcium in the diet.	
	1	
	2	
	3	
	4	
		[4]
(b)	A lack of minerals in the diet can lead to deficiency diseases.	
	(i) Name the deficiency disease caused by a poor supply of iron.	
		[1]
	(ii) Name the deficiency disease caused by a poor supply of iodide.	

6

[Total: 14]





Section B

6

Answer all questions.

7 A recipe for gingerbread uses the following ingredients.

250 g plain flour 1 tsp bicarbonate of soda 1½ tsp ground ginger 100 g margarine 50 g brown sugar 150 g syrup 2 eggs 2½ ml milk

(a)	DIC	arbonate of soda is a chemical raising agent.
	(i)	Name the gas produced when using bicarbonate of soda.
		[1]
	(ii)	Suggest three guidelines for storing bicarbonate of soda in the home.
		1
		2
		3[3]
(b)	Des	scribe how to make the gingerbread using the melting method.
		[5]



(c) Sometimes faults occur when cakes are baked.

Give two different reasons for each of the following faults in a baked gingerbread.

7

(i)	There are little air holes on the surface of the baked cake.	
	1	
	2	
,\	-	[2]
(11)	The cake has sunk in the middle.	
	1	
	2	 [2]

- 8 Deep frying is a popular method of cooking potatoes.
 - (a) Name two kinds of oils suitable to use for deep frying.

1	
2	
	[2]

(b) State two different effects of deep frying on the nutritional value of potatoes.

1	••••
2	

(c) Sensory evaluation is carried out on the deep-fried potatoes.

State **three** words to describe the texture of deep-fried potatoes.

1	
2	
3	

[Total: 7]

[3]

[2]

[Total: 13]





9 Milk and cheese are dairy foods.

(a)	Name three other dairy foods.	
	1	
	2	
	3	
		[3]
(b)	State one reason why some types of cheese are not suitable for lacto-vegetarians.	
		[1]
(c)	Mould can often be found on foods such as cheese.	
	Name two different foods that mould commonly grows on.	
	1	
	2	
		[2]
(d)	Describe how cheese should be stored in the home to minimise food spoilage.	
		[3]
(e)	Cheese is often used as a filling for sandwiches.	
` ,	Explain why a person who is lactose intolerant should not eat a cheese sandwich.	
		[3]

8

[Total: 12]





10 One reason for packaging food is to protect it from chemical contamination.

9

(a)	Describe four other reasons for protecting food with packaging.	
	1	
	2	
	3	
	4	
/ls\	Motel is often used as a time of marks sing material in the food industry.	[4]
(b)	Metal is often used as a type of packaging material in the food industry.	
	State four disadvantages of using metal as a packaging material.	
	1	
	2	
	3	
	4	
		[4]
		[Total: 8]
Des	scribe five advantages of using paint as a wall covering in a kitchen.	
1		
2		
3		
4		
5		
		[5]

10 Section C

Answer either Question 12 or 13.

12	Obesity is a common health issue often caused by an incorrect diet.
	Discuss ways to prevent obesity when planning family meals.

[15]

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pregnant lacto-vegetarian and her developing baby.	

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