

Cambridge IGCSE[™]

CANDIDATE NAME					
CENTRE NUMBER			CANDIDATE NUMBER		

FOOD & NUTRITION

0648/11

Paper 1 Theory

October/November 2020

2 hours

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 [].

Section A

Answer all questions.

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

1	A deficiency disease occurs if a nutrient is lacking in the body. Name one nutrient which is lacking if the body has the following diseases:					
	(a)	goitre	[1]			
	(b)	pellagra	[1]			
	(c)	marasmus	[1]			
	(d)	anaemia	[1]			
	(e)	night blindness.	[1]			
		[Total:	5]			
2		Name four other different sources of vitamin C which could be used in a fruit smoothie. 1				
		4	 [4]			
	(b)	State four reasons why the body requires vitamin C.				
		1				
		2				
		3				
		4	 [4]			
		[Total:	8]			

3 Study the label below from a pre-packed chicken sandwich.

Use by: 20 November 2020	Keep refrigerated		
Ingredients: white bread (contains wheat flour, water, salt, yeast)	Nutritional information		
chicken blended dairy-free spread (contains rapeseed oil,		each pack contains	
palm oil, sunflower oil, salt)	energy	301 kcal 1291 kJ	
	protein	17.6g	
	carbohydrates of which sugars	36.5 g 1.5 g	
	fats of which saturates	10.4 g 1.6 g	
	fibre	1.2g	
	sodium	1.1 mg	

(a)	The sandwich contains 17.6g of protein. State the main protein source.	
		[1]
(b)	Identify three different alternative protein foods which could be used so a vegan could eat sandwich.	the
	1	
	2	
	3	[3]
(c)	The fibre content of the sandwich is low at 1.2g. Identify two different changes which could be made to increase the fibre content of sandwich.	the
	1	
	2	
		[2]

(d)	State five benefits of increasing fibre in the diet.				
	1				
	2				
	3				
	4				
	5				
		 [5			
		Į			
(e)	Name two enzymes involved in the digestion of the bread in the sandwich.				
	1				
	2	 [2			
/ f \	Name two enzymes involved in the digestion of the chicken in the sandwich.	L -			
(f)					
	1	••••			
	2	 [2			
(g)	A person with coeliac disease could not eat this sandwich as it contains wheat flour in bread.	-			
	List four starchy foods that a person with coeliac disease could eat.				
	1				
	2				
	3				
	4				
		[4			

(h)	Explain why there is a use-by date on the packaging for this sandwich.
	[2]
(i)	The sandwich is packaged in a plastic sleeve. Give six reasons why foods are packaged.
	1
	2
	3
	4
	5
	6
	[6]

[Total: 27]

Section B

Answer all questions.

4	Nut	Nutritionists advise eating at least two portions of fish every week.					
	(a)	Justify the nutritional benefits of including fish in the diet.					
			[6]				
	(b)	List four points to look for when buying fresh white fish from the fish market.					
		1					
		2					
		3					
		4	[4]				
	(c)	A basic recipe for making fish cakes uses cod.					
		(i) Name two different white fish which could also be used to make the fish cakes.					
		1					
		2					
			[2]				

(ii)	Suggest three herbs which could be used to add flavour to the fish cakes.
	1
	2
	3
	[3]
(d) Th	e fish cakes can be shallow fried.
(i)	State four advantages of shallow frying as a method of cooking.
	1
	2
	3
	4
	[A1
/::\	[4]
(ii)	State five guidelines to follow when shallow frying.
	1
	2
	3
	4
	5
	[5]

	(e)	Identify five different points to consider when choosing a pan for shallow frying.
		1
		2
		3
		4
		5
		[5]
		[Total: 29]
5	Sau	ces may be used to add nutrients to a dish such as cheese sauce with cauliflower.
		ntify three other reasons why a sauce may be served with a meal and suggest a different mple to illustrate each reason.
	reas	son 1
	exa	mple
	reas	son 2
	exa	mple
	reas	son 3
	exa	mple
	2710	[6]

6	(a)	Name two bacteria which can cause food poisoning.	
		1	
		2	
			[2]
	(b)	List three symptoms of food poisoning.	
		1	
		2	
		3	
			[3]
			[Total: 5]
7	Sta	te five food safety rules which help delay food spoilage when using a refrigerator.	
	1		
	3		
	4		
	5		
			[5]

Section C

Answer either Question 8 or 9.

8 Discuss the importance and uses of soya beans and their products in the preparation of meals.
[15]

))	Discuss the factors which need to be considered when planning and preparing meals to minimise the risk of family members suffering from obesity. [15]

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