

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS General Certificate of Education Advanced Level

FOOD STUDIES 9336/01

Paper 1 October/November 2013

3 hours

Additional Materials: Answer Booklet/Paper

READ THESE INSTRUCTIONS FIRST

If you have been given an Answer Booklet, follow the instructions on the front cover of the Booklet.

Write your Centre number, candidate number and name on all the work you hand in.

Write in dark blue or black pen.

You may use a soft pencil for any diagrams, graphs or rough working.

Do not use staples, paper clips, highlighters, glue or correction fluid.

Answer four questions, two from Section A and two from Section B.

Write your answers on the separate Answer Booklet/Paper provided.

You are reminded of the need for good English and clear presentation in your answers.

At the end of the examination, fasten all your work securely together.

The number of marks is given in brackets [] at the end of each question or part question.



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Section A

Answer **two** questions.

1	Man	Many people suffer from deficiency diseases at some stage of their life.						
	Disc	uss	the causes, symptoms and remedies for the following deficiency diseases:					
	(a)	ana	emia;	[5]				
	(b)	oste	eoporosis;	[5]				
	(c)	goit	re;	[5]				
	(d)	nigł	nt-blindness;	[5]				
	(e)	scu	rvy.	[5]				
2	Discuss:							
	(a)	the	digestion of food in the small intestine;	[12]				
	(b)	the	absorption of nutrients in the ileum.	[13]				
3	Fats and oils have different characteristics and have many different uses in the preparation of dishes.							
	(a)	Disc	cuss this statement, illustrating your answer with named examples of fats and oils.	[10]				
	(b)	Exp	plain the following terms relating to fats and oils:					
		(i)	rancidity;	[3]				
		(ii)	smoke point;	[3]				
	((iii)	hydrogenation.	[3]				
	(c)	Cur	rent nutritional advice is to reduce the amount of fat in the diet.					
		Giv	e reasons for this advice.	[6]				
4	(a)	Des	scribe the primary and secondary structure of protein.	[6]				
	(b) Proteins can be classified as globular or fibrous.							
		Discuss the characteristics and properties of each type, illustrating your answer with name examples.						
	(c)	Exp	plain, with examples, the effects of the following on protein:					
		(i)	heat;					
		(ii)	agitation;					
	((iii)	acids.	[8]				
	(d)	Def	ine deamination and discuss its importance in nutrition.	[4]				

[Section A Total: 50 marks]

Section B

Answer two questions.

5	(a)	Disc	cuss factors which influence the choice of food for individuals in your area.	[15]	
	(b)		te your understanding of the term <i>Recommended Daily Intake (RDI)</i> and discussion tance to the individual.	s its [3]	
	(c)		ritional information, although not a legal requirement, can be found on many backages.	food	
		Disc	cuss the importance of this information to the consumer.	[7]	
6	(a)		ntify different reasons for including sauces when planning and preparing meals. (Imples to illustrate your answer.	Give [6]	
	(b)	Des	scribe and explain the following processes which may occur when making sauces:		
		(i)	gelatinisation;	[5]	
		(ii)	emulsification;	[5]	
		(iii)	coagulation.	[5]	
	(c)	Exp	plain the term syneresis and give examples to support your answer.	[4]	
7	(a)	Dis	cuss factors which may make food dangerous to consume.	[10]	
	(b)	Many outbreaks of food poisoning can be traced to poor preparation, cooking and storage of chicken.			
		Exp	plain why it is important to:		
		(i)	thaw frozen chicken completely before cooking;		
		(ii)	cook chicken thoroughly;		
		(iii)	serve immediately.	[10]	
	(c)	Fre	ezing is a popular method of preserving food.		
		(i)	Explain the principles of deep freezing.		
		(ii)	Give advice on the use of a domestic freezer.	[5]	

- 8 Milk is often referred to as a perfect food.
 - (a) Identify the nutrients in milk and explain the importance of each nutrient for the development of babies. [12]
 - (b) Discuss problems associated with a diet which consists only of milk. [6]
 - (c) Consider the advantages and disadvantages of breast-feeding and bottle-feeding using formula milk.

[Section B Total: 50 marks]

[Total for Paper: 100 marks]

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