UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS General Certificate of Education Advanced Subsidiary Level and Advanced Level

FOOD STUDIES 9336/01

Paper 1

October/November 2004

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 or rough working.

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

Answer four questions.

Section A

Answer two questions.

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

Section B

Answer **two** questions.

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

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.

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

Section A

Answer **two** questions from this section.

1	(a)	Cia	ssity carbonydrates and describe the structure of each type identified.	[12]
	(b)	Dis	cuss:	
		(i)	the importance of carbohydrates in a healthy diet	[3]
		(ii)	the effects on the body of an excess of different types of carbohydrate	[5]
	(c)	Des	scribe the gelatinisation process.	[5]
				[Total: 25]
2	Mar	ny pe	eople choose to become vegetarians.	
	(a)	Dis	cuss reasons why people might follow a vegetarian diet.	[5]
	(b)	Nar	me and describe different types of vegetarian diet.	[5]
	(c)		cuss reasons for a shortage in some vegetarian diets of the nutrients ide plain how the shortages could be overcome.	ntified below.
		(i)	HBV protein	
		(ii)	vitamin B ₁₂	
		(iii)	vitamin A	
		(iv)	iron	[15]
				[Total: 25]
3	(a)	List	the chemical elements which make up protein.	[3]
	(b)	(i)	Describe the primary and secondary structure of protein molecules.	[6]
		(ii)	Compare globular and fibrous proteins, giving named examples of each.	[7]
	(c)	•	plain, with examples, how the structure of protein is affected by heat, nges in pH.	agitation and
				[Total: 25]

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3 4 (a) Discuss ways of making food more digestible. [5] (b) Describe: the digestion of the nutrients found in eggs [10] (i) (ii) the absorption and utilisation of the end products of this digestion [10] [Total: 25] Section B Answer two questions from this section. 5 (a) Discuss the uses of fats and oils in food preparation. [10] (b) What problems can be associated with the consumption of fat? [6] (c) Describe and explain the effect of heat on fats and oils. [4] (d) Explain the following terms: (i) oxidative rancidity antioxidant (ii) [5] [Total: 25] (a) Discuss the choice of flour, sugar, fat and eggs for achieving a successful rich cake. [13] 6 **(b)** Describe and explain the following: the reaction of the chemical raising agent during baking [5] (ii) other changes which take place when a rich cake is baked [7]

[Total: 25]

7	Cas	ses of food poisoning have increased in recent years.	
	(a)	Identify and explain possible reasons for this increase.	[6]
	(b)	Food poisoning is often caused by bacteria. Explain the effect of the following on bacteria	a:
		(i) changes in temperature	[8]
		(ii) salt	[2]
	(c)	Comment on the use of radiation as a method of inhibiting bacterial growth.	[3]
	(d)	Discuss causes of food poisoning, other than contamination by bacteria.	[6]
		[Total	: 25]
8	Disc	cuss the influence of the following factors on food choice:	
	(a)	economic circumstances	
	(b)	availability of food	
	(c)	nutritional knowledge	
	(d)	marketing methods	
	(e)	cultural and social habits	
	(f)	environment	[25]
		[Total	
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[Total: 25]

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