UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

FOOD AND NUTRITION

0648/01

Paper 1 Theory

October/November 2005

2 hours

Candidates answer on the Question Paper. No Additional Materials are required.

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name on all the work you hand in. Write in dark blue or black pen in the spaces provided on the Question Paper. You may use a soft pencil for any diagrams, or rough working. Do not use staples, paper clips, highlighters, glue or correction fluid.

Section A

Answer **all** questions in the spaces provided on the Question Paper. You are advised to spend no longer than 45 minutes on Section A.

Section B

Answer **all** questions in the spaces provided on the Question Paper.

Section C

Answer either question 8(a) or 8(b) on the lined pages at the end of the Question Paper. The number of marks is given in brackets [] at the end of each question or part question.

For Examiner's Use		
1		
2		
3		
4		
5		
6		
7		
8		
Total		

Section A

Answer all questions.

1	(a)	Name three nutrients which can provide energy.	
		1	
		3	
	(b)	Give the energy value of 1 g of each of the nutrients named above.	
		1	
		3	[3]
	(c)	State four different uses of energy in the body.	
			[4]
	(d)	Explain what is meant by the term BMR (Basal Metabolic Rate).	
			[3]
	(e)	What happens when energy intake is greater than energy output?	
			[3]

	(f)	Discuss five reasons for different individual energy requirements.
		[5]
2	(a)	State four good sources of iron.
		rol
		[2]
	(b)	Explain the importance of iron in the body.
		[3]
	(c)	Name the deficiency disease caused by a lack of iron.
		[1]
	(d)	Give two symptoms of the deficiency disease named above.
	(4)	
		1[1]
	(e)	Name the vitamin which aids the absorption of iron.
		[1]

3	Des	cribe and explain:
	(a)	digestion in the duodenum;
		[5]
	(b)	absorption in the ileum.

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Cur	Current dietary advice is to include fresh fruit and vegetables in the diet each day.				
(a)	Give six reasons for their importance.				
	[3]				
(b)	Suggest how children can be encouraged to eat fresh fruit and vegetables. Give reasons for your suggestions.				
	[3]				
	[Section A Total: 40]				

Section B

Answer all questions.

5	(a)	State four reasons for the importance of cereals in many parts of the world.
		[2]
	(b)	Name four cereals.
		1
		3[2]
	(c)	The following ingredients can be used to make shortcrust pastry.
		200 g plain flour 100 g fat 50 ml cold water
		Describe, with reasons, the method of making shortcrust pastry.
		[5]
	(d)	Give the oven temperature for baking shortcrust pastry.
		[1]

	(e)	State and explain the changes which take place when the pastry is being baked.
		[5]
6	Wri	te an informative paragraph on each of the following:
	(a)	soya;
		[5]

		•••••	 	 •••••
		•••••		
different us	es of sugar.			

7	Bact	eria	can make food unsafe to eat.
	(a)	Nan	ne two types of bacteria which cause food poisoning.
			[1]
			te the effect of the following temperatures on bacteria:
		(1)	–18 °C
	((ii)	4°C
	(i	iii)	37°C
	(i	iv)	70 °C
	(c)	Disc	cuss the safe storage, preparation, cooking and serving of meat.
			[6]

(d)	Discuss ways in which enzymes can bring about changes in foods.
	[6]

[Section B Total: 45]

Section C

Answer either 8(a) or 8(b)

8	(a)	needs of teenagers and suggest how their needs can be met when planning their meals.
	or	
	(b)	Discuss advantages and disadvantages of using convenience foods. Suggest ways in which convenience foods can be used in family meals.
••••		
	•••••	

[Section C Tot	tal: 15]

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[Total for Paper: 100]

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