Write your name here	Lou	
Surname	Otner	names
Pearson	Centre Number	Candidate Number
Edexcel GCE		
Design a	nd Techi	nology
Food Technology Advanced Unit 3: Food Products		
Monday 8 June 2015 – M Time: 2 hours	1orning	Paper Reference 6FT03/01
You do not need any other	materials.	Total Marks

Instructions

- Use **black** ink or ball-point pen.
- If pencil is used for diagrams/sketches it must be dark (HB or B). Coloured pens, pencils and highlighter pens must **not** be used.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided
 - there may be more space than you need.

Information

- The total mark for this paper is 70.
- The marks for **each** question are shown in brackets
 - use this as a guide as to how much time to spend on each question.
- Questions labelled with an asterisk (*) are ones where the quality of your written communication will be assessed
 - you should take particular care on these questions with your spelling, punctuation and grammar, as well as the clarity of expression.

Advice

- Read each question carefully before you start to answer it.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ▶

PEARSON

P44900A

©2015 Pearson Education Ltd. 1/1/1/1/1

The contribution of nutrients to the workings of the human body is essential for god health.	od
For each of the given bodily processes, name the micro-nutrient required and give one good source of this micro-nutrient.	
(a) Absorption of iron.	(2)
Name	
Source	
(b) Release of energy from carbohydrate foods.	(2)
Name	
Source	
(c) Production of the thyroid hormones: thyroxine and tri-iodothyronine.	(2)
Name	
Source	
(d) Synthesis of proteins required for normal blood clotting and bone structure.	(2)
Name	(_/
Source	
(Total for Question 1 = 8 n	narks)
	health. For each of the given bodily processes, name the micro-nutrient required and give one good source of this micro-nutrient. (a) Absorption of iron. Name Source (b) Release of energy from carbohydrate foods. Name Source (c) Production of the thyroid hormones: thyroxine and tri-iodothyronine. Name Source (d) Synthesis of proteins required for normal blood clotting and bone structure. Name



2	Describe the changes that occur during the following stages of the yeast bread making process.		
	(a) Mixing of ingredients	(2)	
	(b) Kneading	(2)	
	(c) Proving	(2)	

(d) Baking	(2)
	(Total for Question 2 = 8 marks)

3 (a) Name two natural sources of sugar (sucrose).	(2)
1	
2(b) Outline the sugar refining process.	(4)

Explain the requirements for	successful jam makir	ng.	(4)
		(Total for Questi	on 3 = 10 marks)
		(Total for Questi	on 3 = 10 marks)
		(Total for Questi	on 3 = 10 marks)
		(Total for Questi	on 3 = 10 marks)
		(Total for Questi	on 3 = 10 marks)
		(Total for Questi	on 3 = 10 marks)
		(Total for Questi	on 3 = 10 marks)
		(Total for Questi	on 3 = 10 marks)
		(Total for Questi	on 3 = 10 marks)
		(Total for Questi	on 3 = 10 marks)
		(Total for Questi	on 3 = 10 marks)
		(Total for Questi	on 3 = 10 marks)

development.			(4)

*(b) There is a growing number of elderly people in the UK population.	
Discuss the response of food manufacturers to this trend.	(0)
	(8)

(Tatal face Occasion 4 - 42 manular)
 (Total for Question 4 = 12 marks)

5	All foods deteriorate over time.	
	Describe the chemical changes that occur during the following processes.	
	(a) Spoilage of meat	
		(4)

(b) Souring of milk	(4)



(c) Spoilage of fruit	(4)	
	(Total for Question 5 = 12 marks)	
	(Total for Question 5 = 12 marks)	
	(Total for Question 5 = 12 marks)	
	(Total for Question 5 = 12 marks)	
	(Total for Question 5 = 12 marks)	
	(Total for Question 5 = 12 marks)	

(a) (i) Define the term ovo vegetarian .	(1)
(ii) Define the term lacto-ovo vegetarian .	(1)

•	owing nutrients in a vegan diet.	(8)
(i) Protein		
(ii) Vitamin D		
	(Total for Questio	n 6 = 10 marks)
	(10101101 &000110	

7 Discuss how encapsulation technology has contributed to new food product development.						
(10)	(



(Total for Question 7 = 10 marks)
TOTAL FOR PAPER = 70 MARKS

