

X836/75/01

## Health and Food Technology

MONDAY, 15 MAY 9:00 AM – 10:50 AM



Fill in these box	es and read v	hat is printe	ed below.						
Full name of centre				Town					
Forename(s)		Suri	name				Num	ber of	seat
Date of birt	h								
Day	Month	Year	Scottish ca	andidate	e numbei	r			

Total marks — 50

Attempt questions 1 and 2 and any THREE from the following FOUR questions.

Write your answers clearly in the spaces provided in this booklet. Additional space for answers is provided at the end of this booklet. If you use this space you must clearly identify the question number you are attempting.

Use blue or black ink.

Before leaving the examination room you must give this booklet to the Invigilator; if you do not, you may lose all the marks for this paper.





#### Total marks — 50

Attempt questions 1 and 2 and any THREE from the following FOUR questions.

Question	1
(a)	Identify <b>two</b> ways to reduce the risk of dental caries.
	Way 1
	Way 2
(b)	State <b>one</b> function and name <b>one</b> food source of each of the following nutrients.
	Vitamin A
	• Sodium
	Vitamin A
	Function
	Food source
	Sodium
	Function
	Food source

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#### Question 1 (continued)

(c)	Describe <b>two</b> benefits of using Ultra Heat-Treated (UHT) foods for elderly consumers.	2
	Benefit 1	
	Benefit 2	
(d)	Explain <b>two</b> reasons why it is important for the elderly to follow a healthy balanced diet.	2
	Reason 1	
	Reason 2	



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#### Question 2

A 25-year-old female reality TV star is overweight.

The table below shows the dietary reference values for females aged 19–50 years old.

[	Dietary reference values for females aged 19–50 years old								
Estimated average requirements		Reference nutrient intakes				Reference nutrient intakes		Guideline daily amount	
Energy (kcal)	Protein (g)	Vitamin B (mg)	Vitamin D (µg)	Iron (mg)	Fibre (g)				
2175	55.5	1.0	10	14.8	30				

The table below shows the dietary analysis of a typical days meals for the 25-year-old female.

Dietary analysis of her typical day's meals								
Energy (kcal)	Protein (g)	Vitamin B (mg)	Vitamin D (µg)	Iron (mg)	Fibre (g)			
2850	45.2	1.2	7	6.2	23			

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6

### Question 2 (continued)

19–50 ye	ars old, evaluate th	e suitability o	f her typical d	r females aged ay's meals.
Evaluatio	on			



#### Question 2 (continued)

Way 1	
Way 2	
	n <b>two</b> ways the reality TV star can help to reduce her risk of developing porosis.
osteor	porosis.
osteor	
osteor	porosis.
osteop Way 1	porosis.
osteop Way 1	porosis.
osteop Way 1	porosis.

[Turn over for next question

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#### Attempt any THREE from the following FOUR questions

Questic	n 3
(8	A food manufacturer is developing a new vegetarian ready meal.  Explain the importance of <b>each</b> of the following stages in the product development process of the vegetarian ready meal.
	Prototype production
	Marketing plan
(t	The vegetarian ready meal is aimed at teenagers.
	Give <b>two</b> reasons why a teenager may choose a vegetarian diet.
	Reason 1
	Reason 2

# Question 3 (continued)

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xp	olain the importance of each to the consumer.
Jse	e-by date
\	
	Υ
Th	a vegetarian ready meal contains the following ingredients
. 116	e vegetarian ready meal contains the following ingredients. brown rice
•	peas
•	red pepper
	vegetarian mince
	red kidney beans
,	dried mixed herbs.
	ntify <b>two</b> pieces of current dietary advice the vegetarian ready meal could p teenagers meet.
	olain the importance to health of <b>each</b> piece of current dietary advice.
Cur	rent dietary advice
mı	portance to health

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Question	3	(d)	(continu	ed)
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Current dietary advice
Importance to health

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#### Question 4

(a) A young working couple wish to buy a meal kit delivery box. Evaluate the suitability of the following box for the couple:

4

- over 50 recipes to choose from each week
- healthy eating range
- minimum £5 delivery fee
- ingredients supplied in set quantities for 2 or 4 people
- can be ordered on-line between 9am and 5pm daily.

Evaluation			



#### Question 4 (continued)

(b)	Explain <b>two</b> reasons why the meal kit delivery company would carry out market research before launching their new product.					
	Reason 1					
	Reason 2					
(c)	Explain why the ingredients in the meal kit may contain each of the following food additives.					
	Preservatives					
	Sweeteners					

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2

#### Question 4 (continued)

d)	The couple are expecting a baby.  Explain the importance of <b>each</b> of the following nutrients in the diet of a pregnant woman.				
	Iron				
	Protein				

3

#### Question 5

A winter festive market has a range of street food stalls.					
Describe <b>three</b> ways a Trading Standards Officer protects the consumers who visit the winter festive market street food stalls.					
Way 1					
Way 2					
Way 3					

3

#### Question 5 (continued)

(b)	One of the stalls is selling ginger biscuits.
	Explain the effect on the finished biscuits if each of the following changes is

made to the biscuit recipe.				
Caster sugar to soft brown sugar				
Butter to margarine				



#### Question 5 (continued)

- (c) The ginger biscuits can be bought in the following packaging:
  - cardboard box
  - plastic window
  - variety of sizes
  - stackable
  - folds flat
  - grease proof/absorbent layer
  - resealable.

Evaluate the suitability of this packaging for the ginger biscuits.





Evaluation			

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Question 5	(c) (continued)		
-			
-			
-			
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-			
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#### Question 6

(a)	A local sandwich shop prepares a range of fresh sandwiches.	
	Explain <b>three</b> ways the staff in the sandwich shop could ensure food safety when preparing the sandwiches.	3
	Way 1	
	Way 2	
	Way 3	
(b)	The best selling sandwich in the sandwich shop has a cheese filling.	
	Identify two nutrients found in cheese.	2
	Nutrient 1	
	Nutrient 2	

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#### Question 6 (continued)

(c)	The sandwich shop would like to carry out sensory testing on a new product.  Name <b>one</b> type of sensory test the sandwich shop may carry out.	
	Explain <b>two</b> reasons why they would carry out this type of test.	3
	Sensory test	-
	Explanation 1	-
	Explanation 2	-
(d)	Describe <b>two</b> ways the sandwich shop could reduce their food waste.	- - 2
	Way 1	-
	Way 2	-
		_

[END OF QUESTION PAPER]



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#### ADDITIONAL SPACE FOR ANSWERS

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#### ADDITIONAL SPACE FOR ANSWERS

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