	FOR OFFICIAL USE					
N5	National Qualificat 2023 MOI				Mark	
X836/75/01				He	ealth and Techr	l Food hology
MONDAY, 15 MAY 9:00 AM – 10:50 AM					* X 8 3 6 7	
Fill in these boxes and rea	d what is printe	d below.				
Full name of centre			Town			
Forename(s)	Surr	name			Number	of seat
Date of birth Day Month	Year	Scottish c	andidate	e number		

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.





		MARKS	DO NOT WRITE IN THIS
	Total marks — 50		MARGIN
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.	2	
	Way 1		
	Way 2		
(b)	State <b>one</b> function and name <b>one</b> food source of each of the following nutrients.	4	
	Vitamin A		
	• Sodium		
	Vitamin A		
	Function		
	Food source		
	Sodium		
	Function		
	Food source		

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		MARKS	WR T
stion	1 (continued)		M
(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					
Energy (kcal)	Protein (g)	Vitamin B (mg)	Vitamin D (µg)	lron (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)	lron (mg)	Fibre (g)	
2850	45.2	1.2	7	6.2	23	



		MARKS	DO NOT WRITE IN THIS MARGIN
Question	2 (continued)		
(a)	Taking account of the dietary reference values (DRVs) for females aged 19–50 years old, evaluate the suitability of her typical day's meals.	6	
	Evaluation		

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		MARKS
stion	2 (continued)	
	Explain <b>two</b> ways that having an allotment may impact on the reality TV star's choice of food.	2
	Way 1	_
		_
		_
	Way 2	_
		_
		_
	Fundain two wave the wealth, TV stars are half to we does how with of developing	_
(c)	Explain <b>two</b> ways the reality TV star can help to reduce her risk of developing osteoporosis.	2
	Way 1	_
		_
		_
	Way 2	_
		_
		_
		_



[Turn over for next question

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Attomat	any TUREE from the following FOUR questions	MARKS	DO NOT WRITE IN THIS MARGIN
Attempt	any THREE from the following FOUR questions		
Question	3		
(a)	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.	2	
	Prototype production		
	Marketing plan		
(b)	The vegetarian ready meal is aimed at teenagers.		
	Give <b>two</b> reasons why a teenager may choose a vegetarian diet. Reason 1	2	
	Reason 2		

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stion	3 (continued)	
(c)	The vegetarian ready meal has the following information on the label.	
	Explain the importance of each to the consumer.	2
	Use-by date	_
		_
		_
		_
	Ý	_
		-
(d)	The vegetarian ready meal contains the following ingredients.	-
	brown rice	
	• peas	
	red pepper	
	vegetarian mince	
	red kidney beans	
	dried mixed herbs.	
	Identify <b>two</b> pieces of current dietary advice the vegetarian ready meal could help teenagers meet.	
	Explain the importance to health of <b>each</b> piece of current dietary advice.	
	Current dietary advice	_
		-
	Importance to health	-
		_
		- r

Question 3 (d) (continued)		DO NOT WRITE IN THIS MARGIN
Current dietary advice	_	
	_	
	_	
	_	
Importance to health	_	
	_	
	_	



	MARK
tion 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
<ul> <li>over 50 recipes to choose from each week</li> </ul>	
<ul> <li>healthy eating range</li> </ul>	
<ul> <li>minimum £5 delivery fee</li> </ul>	
<ul> <li>ingredients supplied in set quantities for 2 or 4 people</li> </ul>	
<ul> <li>can be ordered on-line between 9am and 5pm daily.</li> </ul>	
can be ordered on-the between sam and spin daily.	
Evaluation	
-	<b>-</b>
l	Turn over

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		MARKS	DO NOT WRITE IN THIS MARGIN
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.	2	
	Reason 1	_	
		-	
		-	
		_	
	Reason 2	_	
		-	
		-	
		-	
(c)	Explain why the ingredients in the meal kit may contain each of the following food additives.	2	
	Preservatives	_	
		-	
		_	
	Sweeteners	_	
		_	
		_	
		_	



		MARKS	DO NOT WRITE IN THIS MARGIN
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.	2	
	Iron	-	
		_	
		_	
		-	
		-	
	Protein	-	
		-	
		-	
		_	
		_	
	[Turn over	-	



		MARKS	DO NOT WRITE IN THIS MARGIN
Question	5		
(a)	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.	3	
	Way 1		
		_	
		_	
	Way 2	_	
		_	
		_	
	Way 3	_	
		_	



		MAR
on	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.	3
	Caster sugar to soft brown sugar	
		_
	Butter to margarine	
	[Turn ove	
		-1

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estion 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.	4	
Evaluation		



Question 5 (c) (continued)



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•	_	MARKS	DO NOT WRITE IN THIS MARGIN
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 <b>two</b> nutrients found in cheese.	2	
	Nutrient 1		
	Nutrient 2		



		MARKS	DO NOT WRITE IN THIS
Question	6 (continued)		MARGIN
(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. Way 1	2	
	Way 2		
	[END OF QUESTION PAPER]		
_	* X 8 3 6 7 5 0 1 1 9 *		

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### ADDITIONAL SPACE FOR ANSWERS



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### ADDITIONAL SPACE FOR ANSWERS



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