

FOR OFFICIAL USE

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Total Marks

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X118/201

NATIONAL
QUALIFICATIONS
2007

WEDNESDAY, 30 MAY
9.00 AM – 10.30 AM

HOME ECONOMICS
HEALTH AND FOOD
TECHNOLOGY
INTERMEDIATE 2

Fill in these boxes and read what is printed below.

Full name of centre

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Town

--

Forename(s)

--

Surname

--

Date of birth

Day Month Year

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Scottish candidate number

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Number of seat

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- 1 Try to answer every question in this paper.
- 2 Read the whole of each question carefully before you answer it.
Remember that some questions have an element of choice in them.
- 3 Write your answers in the spaces provided.
- 4 Additional lines at the end of the booklet can be used if more space is required for answers or if you need to do any rough work.
- 5 Before leaving the examination room you must give this book to the invigilator. If you do not, you may lose all the marks for this paper.



Marks

1. (a) For **each** of the following nutrients state:

- (i) **one** function;
- (ii) **two** different food sources.

Protein

Function _____ **1**

Food source 1 _____ Food source 2 _____ **1**

Sodium

Function _____ **1**

Food source 1 _____ Food source 2 _____ **1**

Vitamin A

Function _____ **1**

Food source 1 _____ Food source 2 _____ **1**

- (b) A parent wishes to buy a healthy snack for a primary school child to eat during morning interval. Study the information about snack products below and choose the most suitable snack for the parent to buy.

Information about Snack Products					
	Energy kJ	Protein (g)	Sugar (g)	Fat (g)	Vit B (mg)
A	519	0.5	35.0	1.8	0.06
B	668	4.1	15.9	1.2	0.23
C	1190	3.3	19.9	19.5	0.14
D	1225	1.4	58.5	4.8	0.12

Tick (✓) **one** of the boxes below to indicate your choice.

Snack A ☐ Snack B ☐ Snack C ☐ Snack D ☐ **1**

Marks

1. (b) (continued)

Give **two** reasons for your choice.

Reason 1 _____

1

Reason 2 _____

1

(c) **Other than diet**, identify and explain **two** factors which may contribute to coronary heart disease.

Factor 1 _____

Explanation _____

Factor 2 _____

Explanation _____

3

[Turn over

Marks

2. (a) A manufacturer wishes to extend his range of healthy eating products to include biscuits. Study the information about biscuits shown below and evaluate **two** of the biscuits for their suitability to be included in the range.

Information about Biscuits		
Biscuit A	Biscuit B	Biscuit C
wholemeal flour rolled oats dried orange pieces sultanas sunflower oil honey flaked almonds	white flour wholemeal flour butter glucose syrup hydrogenated vegetable oil desiccated coconut hazelnut oil	granary flour margarine sugar golden syrup egg salt emulsifier E322

Place the numbers **1** and **2** in the boxes below to indicate your choice.

Biscuit A ☐ Biscuit B ☐ Biscuit C ☐

Evaluation of Biscuit 1

Point 1 _____

1

Point 2 _____

1

Evaluation of Biscuit 2

Point 1 _____

1

Point 2 _____

1

2. (continued)

Marks

- (b) Identify **four** sensory tests the manufacturer could carry out on the biscuits.

Explain the information the manufacturer would gain from **tests 1 and 2**.

Sensory test 1 _____

Information _____

Sensory test 2 _____

Information _____

Sensory test 3 _____

Sensory test 4 _____

4

- (c) Give **four** reasons why the manufacturer would choose to package the biscuits in an air-tight plastic container.

Reason 1 _____

1

Reason 2 _____

1

Reason 3 _____

1

Reason 4 _____

1

Marks

3. (a) A busy student shares a small kitchen with flatmates. She wishes to buy a microwave which she will use to cook single portion ready-made meals.

Study the information about microwaves below and choose the most suitable microwave for the student to buy.

Information about Microwaves		
Microwave A	Microwave B	Microwave C
<ul style="list-style-type: none"> • available in white and stainless steel • 30 cm × 47 cm × 35 cm • microwave category D • 10 power settings • manual controls • 750 watt grill • 5 auto cooking menus • painted oven interior—easy to keep clean 	<ul style="list-style-type: none"> • available in white and metallic green • 29 cm × 45 cm × 32 cm • microwave category E • 5 power settings • touch controls • 750 watt grill • auto defrost programme • metal oven interior—for better conduction of microwaves 	<ul style="list-style-type: none"> • available in white, stainless steel and black • 26 cm × 45 cm × 32 cm • microwave category E • 6 power settings • touch controls • 1000 watt grill • 100 – 200°C fan assisted oven • metal oven interior—for better conduction of microwaves

Tick (✓) **one** of the boxes below to indicate your choice.

Microwave A ☐ Microwave B ☐ Microwave C ☐

1

Give **three** reasons for your choice.

Reason 1 _____

1

Reason 2 _____

1

Reason 3 _____

1

Marks

3. (continued)

(b) The busy student wishes to buy a healthy pasta dish for herself.

Choose **one** of the pasta dishes below and evaluate its suitability for the student.

Pasta Dish A	Pasta Dish B
<ul style="list-style-type: none"> • Weight: 300 g • Serves one • Oven cook for 25 minutes at 200 °C • Not suitable for home freezing • Food facts per pack: 23 g fat 1.9 g salt 1973 kJ 	<ul style="list-style-type: none"> • Weight: 500 g • Serves one • Microwave at full power for 4 minutes, stir and reheat for a further 2 minutes. Leave to stand for one minute before serving. • Suitable for home freezing • Food facts per pack: 6 g fat 0.8 g salt 1582 kJ

Tick (✓) **one** of the boxes below to indicate your choice.

Pasta Dish A ☐ Pasta Dish B ☐

Evaluation

Point 1 _____

1

Point 2 _____

1

Point 3 _____

1

Point 4 _____

1

Marks

3. (continued)

- (c) **Apart from food**, identify **four** conditions necessary for the growth of bacteria.

Condition 1 _____

Condition 2 _____

Condition 3 _____

Condition 4 _____

2

- (d) Explain **two** points of the Trade Descriptions Act 1968.

Explanation 1 _____

1

Explanation 2 _____

1

4. (a) State **two** reasons why a manufacturer would carry out market research when developing a new product.

Reason 1 _____

1

Reason 2 _____

1

Marks

4. (continued)

- (b) **Other than market research**, identify and explain why a manufacturer would use **two** of the missing stages shown below in product development.

Stage A

Stage B

Concept screening

Stage C

Stage D

Product testing

Stage E

Design of packaging materials

Stage F

Stage G

Marketing plan

Stage H

Launch

Place the numbers **1** and **2** in the boxes below to indicate your choice.

Stage A

Stage C

Stage F

Stage 1 _____

Explanation _____

Stage 2 _____

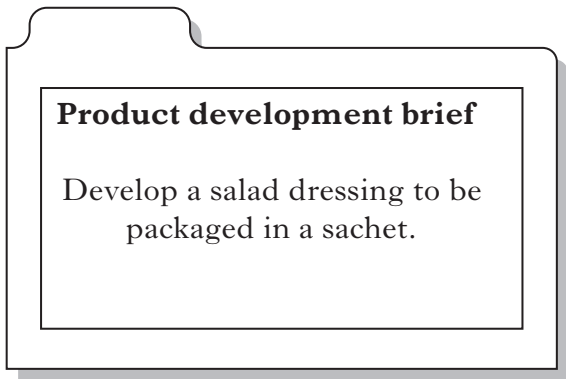
Explanation _____

3

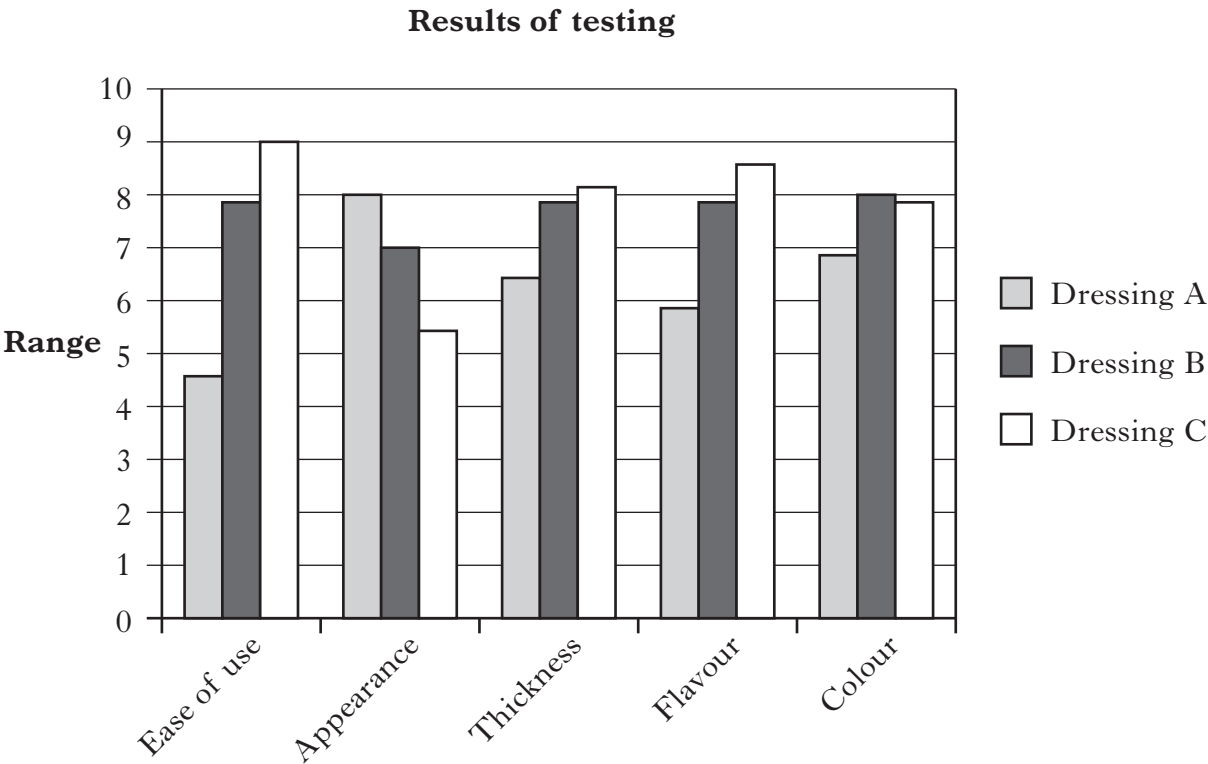
Marks

4. (continued)

(c) A product development team is working on the following brief.



Study the results of testing on a range of salad dressings below and choose the most suitable salad dressing for the manufacturer to use.



Key:

0 —————> 10

Poor —————> Excellent

Marks

4. (c) (continued)

Tick (✓) **one** of the boxes below to indicate your choice.

Dressing A ☐ Dressing B ☐ Dressing C ☐

1

Give **three** reasons for your choice.

Reason 1 _____

1

Reason 2 _____

1

Reason 3 _____

1

(d) Explain how **each** of the following factors could influence a consumer's choice of food.

Food additives _____

1

Functional foods _____

1

Myco-proteins _____

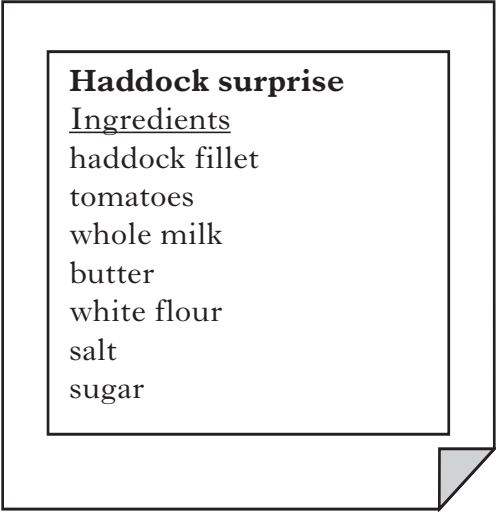
1

[Turn over

Marks

5. (a) A manufacturer wishes to alter the oven baked convenience dish shown below to better meet the Scottish dietary targets.

Identify **three different** Scottish dietary targets, and adapt the recipe to help meet each target identified.



Dietary target 1 _____

1

Adaptation _____

1

Dietary target 2 _____

1

Adaptation _____

1

Dietary target 3 _____

1

Adaptation _____

1

[Turn over for Question 5 (b) on *Page fourteen*

Marks

5. (continued)

(b) A manufacturer wishes to develop a drink to be served at breakfast time.

His target market is consumers who:

- are health conscious
- have little time for breakfast
- enjoy variety in their diet
- enjoy quality products
- shop weekly.

Study the information about breakfast drinks below and choose the most suitable drink for the manufacturer to develop.

Information about Breakfast Drinks				
	Product A	Product B	Product C	Product D
Main ingredients	<ul style="list-style-type: none"> • fresh fruit • skimmed milk • sugar 	<ul style="list-style-type: none"> • fat-free yoghurt • fresh fruit • bran cereal 	<ul style="list-style-type: none"> • creamed coconut • fruit juice • flavourings 	<ul style="list-style-type: none"> • fruit juice • full fat yoghurt • honey
Varieties available	*****	***	**	***
Pack sizes available	200 ml and 500 ml re-sealable plastic bottles	200 ml and 500 ml wide neck, re-sealable plastic bottles	500 ml foil pouch	750 ml glass bottle with screw cap
Storage instructions	Keep refrigerated for up to 4 days. Use within 2 days of opening.	Keep refrigerated for up to 10 days. Use within 3 days of opening.	No refrigeration needed. Use within 24 hrs of opening.	Keep refrigerated for up to 7 days. Use within 2 days of opening.
Aesthetic appeal	***	*****	***	**

Key:

* —————> *****

Poor —————> Excellent

Tick (✓) **one** of the boxes below to indicate your choice.

A ☐B ☐C ☐D ☐**1**

Marks

5. (b) (continued)

Give **three** reasons for your choice.

Reason 1 _____

1

Reason 2 _____

1

Reason 3 _____

1

(c) Explain a **different** benefit to the consumer of buying **each** of the following.

Cook-chill foods _____

1

Vacuum packaged foods _____

1

[END OF QUESTION PAPER]

[illegible]