



Cambridge IGCSE™

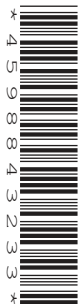
CANDIDATE
NAME

CENTRE
NUMBER

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NUMBER

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FOOD & NUTRITION

0648/11

Paper 1 Theory

October/November 2021

2 hours

You must answer on the question paper.

No additional materials are needed.

INSTRUCTIONS

- Section A: answer **all** questions.
- Section B: answer **all** questions.
- Section C: answer **one** question.
- Use a black or dark blue pen. You may use an HB pencil for any diagrams or graphs.
- Write your name, centre number and candidate number in the boxes at the top of the page.
- Write your answer to each question in the space provided.
- Do **not** use an erasable pen or correction fluid.
- Do **not** write on any bar codes.

INFORMATION

- The total mark for this paper is 100.
- The number of marks for each question or part question is shown in brackets [].

This document has **12** pages. Any blank pages are indicated.

Section A

Answer **all** questions.

You are advised to spend no longer than 45 minutes on Section A.

1 Correct proportions of fat and minerals should be included in a balanced diet.

Name **two** other groups of nutrients that should be included in a balanced diet.

1

2 [2]

2 (a) Name **two** elements in molecules of fats and oils.

1

2 [2]

(b) Triglycerides are a common type of fat.

Complete the equation to show the composition of a triglyceride molecule.

1 molecule of triglyceride = 1 molecule of + 3 molecules of [2]

(c) Give the term used to describe what happens to fat when it spoils due to over-exposure to air.

..... [1]

(d) State **four** functions of fat in the body.

1

2

3

4 [4]

(e) State **three** characteristics of a polyunsaturated fat.

1

2

3 [3]

(f) Name **four** different foods that contain saturated fat.

- 1
- 2
- 3
- 4 [4]

(g) Name **one** enzyme that breaks down fat during digestion.

- [1]
- [Total: 17]

3 (a) State **two** different functions of calcium in the body.

- 1
- 2 [2]

(b) Name **one** nutrient that helps calcium to be absorbed in the body.

- [1]

(c) Name **two** diseases that may be caused by a lack of calcium.

- 1
 - 2 [2]
- [Total: 5]

4 The chemical name for salt is sodium chloride.

(a) State **one** function of chloride in the body.

- [1]

(b) State **two** effects in the body if the diet is lacking in salt.

- 1
- 2 [2]

Section B

Answer **all** questions.

6 A basic recipe for making a blended custard sauce uses the following ingredients:

- 25 g custard powder
- 25 g sugar
- 500 ml full fat milk

(a) Give **three** reasons for continually stirring the sauce during cooking.

- 1
- 2
- 3 [3]

(b) Explain how the sauce thickens during cooking.

-
-
-
-
-
-
-
-
-
- [4]

(c) Explain why a person who is lactose intolerant would not be able to eat this sauce.

-
-
-
-
-
-
-
- [3]

(d) To save time many people buy ready-made custard sauce in a tin or carton. Give **five** other reasons for using ready-made custard sauce.

- 1
 - 2
 - 3
 - 4
 - 5
- [5]

[Total: 15]

7 Bacteria can cause food poisoning.

(a) State **three** conditions that are needed for bacteria to multiply.

- 1
 - 2
 - 3
- [3]

(b) Identify **six** different personal hygiene practices to follow when cooking in order to prevent food poisoning.

- 1
 -
 - 2
 -
 - 3
 -
 - 4
 -
 - 5
 -
 - 6
 -
- [6]

[Total: 9]

- 8 Complete the table to show a **different** raising agent that can be used for each named dish.

dish	raising agent
fruit scone	
gingerbread	
Swiss roll	
bread roll	

[4]

- 9 (a) Give **two** reasons for evaluating the sensory properties of food products.

1

2 [2]

- (b) Name **two** sensory properties of food that could be evaluated.

1

2 [2]

- (c) Describe **three** rules that must be followed when evaluating the sensory properties of food products.

1

2

3 [3]

[Total: 7]

10 A refrigerator is a piece of equipment found in most kitchens.

(a) Suggest **five** different points to consider when buying a new refrigerator for a family of four.

- 1
 -
 - 2
 -
 - 3
 -
 - 4
 -
 - 5
 -
- [5]

(b) Keeping food in a refrigerator delays spoilage of food.

List **five** points to follow when using the refrigerator to ensure food is kept safe to eat.

- 1
 -
 - 2
 -
 - 3
 -
 - 4
 -
 - 5
 -
- [5]

[Total: 10]

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