



CANDIDATE
NAME

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CENTRE
NUMBER

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CANDIDATE
NUMBER

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0648/12

May/June 2024

2 hours

No additional materials are needed.

- 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.

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

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[Turn over

Section A

Answer **all** questions.

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

- 1** State the term used to describe an incorrect intake of nutrients.

..... [1]

- 2** Vitamins are vital to life and help prevent many diseases.

- (a)** Identify **one** disease that vitamin A helps prevent.

..... [1]

- (b)** Name **four** different animal foods that are a good source of vitamin A.

1

2

3

4

[4]

- (c)** Name **one** disease that vitamin C helps prevent.

..... [1]

- (d)** Name **four** different foods that are a good source of vitamin C.

1

2

3

4

[4]

- (e)** State **one** function of vitamin K.

..... [1]

[Total: 11]

- 3 (a) Name **one** element that combines with carbon to form fat.

..... [1]

- (b) Fats can be classified as monounsaturated, polyunsaturated and saturated.

State **three** facts about monounsaturated fats.

1

2

3

[3]

- (c) Give **four** different examples of monounsaturated fat.

1

2

3

4

[4]

- (d) Identify the enzyme involved in the breakdown of fats during digestion.

..... [1]

- (e) Name the stage during heating at which a blue haze is given off from the surface of fat or oil.

..... [1]

- (f) State the type of additive used in foods containing fats and oils to prevent rancidity.

..... [1]

[Total: 11]

- 4 Foods containing protein are classified according to their biological value.

- (a) Define the term low biological value (LBV) protein.

.....

..... [2]

(b) Name **four** different foods that are a good source of LBV protein.

- 1
- 2
- 3
- 4 [4]

(c) Different people need different amounts of protein.

Name **four** groups of people and explain why each of their protein needs differs.

- group 1
- explanation
- group 2
- explanation
- group 3
- explanation
- group 4
- explanation [4]

[Total: 10]

5 Current dietary advice is to reduce the amount of sugar in the diet.

(a) Give **two** health reasons for reducing the amount of sugar in the diet.

- 1
- 2 [2]

- (b) Suggest **five** different ways to reduce the amount of sugar in the diet when shopping for ingredients for family meals.

- 1
- 2
- 3
- 4
- 5

[5]

[Total: 7]

Section B

Answer **all** questions.

- 6 The following ingredients can be used to make a Swiss roll.

3 eggs
75 g caster sugar
75 g plain flour

- (a) Identify **two** ways air is incorporated into the Swiss roll mixture.

1
2 [2]

- (b) Name the ingredient that causes coagulation during baking.

..... [1]

- (c) Name the ingredient that causes dextrinisation during baking.

..... [1]

- (d) Name the ingredient that causes caramelisation during baking.

..... [1]

- (e) An electric hand mixer can be used to make a Swiss roll.

State **five** safety points to follow when using an electric hand mixer.

1
.....
2
.....
3
.....
4
.....
5
..... [5]

[Total: 10]

- 7 Explain **two** benefits to the consumer of each of the following pieces of information that can be found on a food label.

(a) picture of product

- 1
- 2 [2]

(b) cooking instructions

- 1
- 2 [2]

[Total: 4]

- 8 Convection is a method of heat transference.

(a) Describe how convection takes place.

-
-
-
-
-
- [4]

(b) Name **four** moist methods of cooking that use convection.

- 1
- 2
- 3
- 4 [4]

[Total: 8]

- 9 Care must be taken when storing and handling fresh eggs as they may carry bacteria that cause food poisoning.

(a) Name the bacteria that may be present in eggs.

..... [1]

(b) Give **one** reason for each of the following guidelines.

(i) Eggs should be stored in a cool place.

..... [1]

(ii) A cracked egg should **not** be used.

..... [1]

(iii) Eggs should be stored away from strong-smelling foods.

..... [1]

(c) Give **one** way to prevent cross-contamination after handling raw eggs.

..... [1]

[Total: 5]

- 10 Explain why manufacturers advise leaving food to stand for a few minutes after microwave cooking.

.....
.....
.....
..... [3]

11 Freezing is a popular method of preservation.

(a) State the correct temperature for storing food in a freezer.

..... [1]

(b) State and explain **four** different reasons why it is useful for a family to own a freezer.

reason 1

explanation 1

reason 2

explanation 2

reason 3

explanation 3

reason 4

explanation 4

[8]

(c) Give **two** reasons for each of the following guidelines when freezing food at home.

(i) blanch vegetables before freezing

1

2

[2]

(ii) wrap or cover food and remove air from all packaging

1

2

[2]

(iii) cool a home-made lasagne before freezing

1

2

[2]

[Total: 15]

[15]

[15]

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