



Surname _____

Other Names _____

Centre Number _____

Candidate Number _____

Candidate Signature _____

GCSE

FOOD PREPARATION AND NUTRITION

Paper 1 Food Preparation and Nutrition

8585/W

Thursday 14 June 2018 Afternoon

Time allowed: 1 hour 45 minutes

At the top of the page, write your surname and other names, your centre number, your candidate number and add your signature.

[Turn over]



For this paper you must have:

- **a black pen**
- **a pencil.**

INSTRUCTIONS

- **Use black ink or black ball-point pen.**
- **Answer ALL questions.**
- **You must answer the questions in the spaces provided. Do not write on blank pages.**
- **Do all rough work in this answer book. Cross through any work you do not want to be marked.**



INFORMATION

- **The marks for questions are shown in brackets.**
- **The maximum mark for this paper is 100.**
- **You are reminded of the need for good English and clear presentation in your answers.**

**DO NOT TURN OVER UNTIL TOLD
TO DO SO**



SECTION A consists of multiple choice questions.

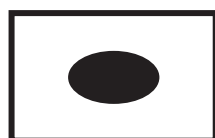
Answer ALL questions in this section.

There are 20 marks available.

Only ONE answer per question is allowed.

For each answer completely fill in the circle alongside the appropriate answer.

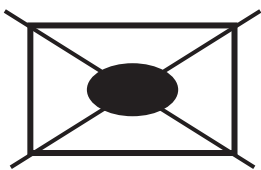
CORRECT METHOD



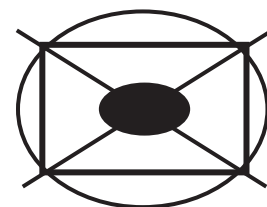
WRONG METHODS



If you want to change your answer you must cross out your original answer as shown.



If you wish to return to an answer previously crossed out, ring the answer you now wish to select as shown.



For each question you should shade in one box.

An example is shown below.

Which food is high in protein?

- A** **cabbage**
- B** **cheese**
- C** **oranges**
- D** **cucumber**

[Turn over]



0	1	.	0	1
---	---	---	---	---

Which one of the following is a micronutrient? [1 mark]

- A carbohydrate**
- B fat**
- C protein**
- D vitamin**

0	1	.	0	2
---	---	---	---	---

Coeliac disease is an intolerance to [1 mark]

- A eggs**
- B meat**
- C milk**
- D wheat**



01.03

Anaemia is caused by a diet deficient in which mineral? [1 mark]

- A calcium**
- B iodine**
- C iron**
- D sodium**

01.04

The percentage of recommended energy from carbohydrates per day is [1 mark]

- A 15%**
- B 35%**
- C 50%**
- D 75%**

[Turn over]



0	1	.	0	5
---	---	---	---	---

Which one of the following shows the danger zone temperatures? [1 mark]

A 0 °C to 35 °C

B 3 °C to 63 °C

C 4 °C to 75 °C

D 5 °C to 63 °C

0	1	.	0	6
---	---	---	---	---

Which one of the following is the correct storage condition for bananas? [1 mark]

A at room temperature

B in the chill cabinet

C in the freezer

D in the refrigerator



0	1	.	0	7
---	---	---	---	---

Which of the following methods of cooking are all water based? [1 mark]

- A steaming, grilling, poaching**
- B boiling, frying, simmering**
- C baking, roasting, grilling**
- D simmering, boiling, poaching**

0	1	.	0	8
---	---	---	---	---

Which one of the following is an example of bacterial contamination? [1 mark]

- A a food worker sneezing when preparing food**
- B a fish bone in a fishcake**
- C cleaning agents left on a work surface**
- D a piece of plastic in a cake mixture**

[Turn over]



0	1	.	0	9
---	---	---	---	---

Convection is the transfer of heat energy through
[1 mark]

A direct heat rays

B liquids

C metals

D solids

0	1	.	1	0
---	---	---	---	---

Which one of the following are water soluble vitamins? [1 mark]

A vitamins A and C

B vitamins B and C

C vitamins B and D

D vitamins C and D



0	1	.	1	1
---	---	---	---	---

When heated, the colour of sugar changes from white to brown. This process is called [1 mark]

- A caramelisation**
- B enzymic browning**
- C gelatinisation**
- D oxidation**

0	1	.	1	2
---	---	---	---	---

Which vitamin helps the body absorb calcium? [1 mark]

- A vitamin A**
- B vitamin B**
- C vitamin C**
- D vitamin D**

[Turn over]



0	1	.	1	3
---	---	---	---	---

Which one of the following is an example of a primary processed food? [1 mark]

- A bananas
- B eggs
- C flour
- D tomatoes

0	1	.	1	4
---	---	---	---	---

Which one of the following CAN be an example of a free range food? [1 mark]

- A bananas
- B eggs
- C flour
- D tomatoes



0	1	.	1	5
---	---	---	---	---

Identify one food that has an extraction rate during production [1 mark]

- A bananas**
- B eggs**
- C flour**
- D tomatoes**

0	1	.	1	6
---	---	---	---	---

Which fruit is affected by enzymic browning? [1 mark]

- A apples**
- B grapes**
- C oranges**
- D raspberries**

[Turn over]



0	1	.	1	7
---	---	---	---	---

Which one of the following describes the distance food is transported from producer to consumer? [1 mark]

- A air miles**
- B carbon footprint**
- C fair trade**
- D food miles**

0	1	.	1	8
---	---	---	---	---

Which of the vitamins listed below is an antioxidant? [1 mark]

- A vitamin A**
- B vitamin B**
- C vitamin D**
- D vitamin K**



01.19

Which one of the following is not a legal requirement for food labelling? [1 mark]

- A cooking instructions
- B list of ingredients
- C serving suggestions
- D weight

01.20

What is added to foods when fortification takes place? [1 mark]

- A additives
- B emulsifiers
- C nutrients
- D preservatives

[Turn over]



SECTION B

Answer ALL questions in this section.

There are 80 marks available.

QUESTION 2 is about food safety.

0 2 . 1

Give FOUR personal hygiene rules that must be followed by people serving food. [4 marks]

1 _____

2 _____



3 _____

4 _____

[Turn over]



0 2 . 2

State TWO food safety rules that must be used for each of the following. Explain why each rule is needed. [8 marks]

Storing fresh, cooked prawns.

Food safety rule	Explanation
1 _____ _____	1 _____ _____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____



Food safety rule	Explanation
2 _____	2 _____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

[Turn over]



Reheating cooked chicken.

Food safety rule	Explanation
1 _____ _____ _____ _____ _____ _____ _____	1 _____ _____ _____ _____ _____ _____ _____

Food safety rule	Explanation
2 _____	2 _____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

[Turn over]





QUESTION 3 is about nutrition, health and food science.

0 3 . 1

Information about two meals is given below. You should use this information when answering the question that follows.

TABLE 1

Ingredients	Choice A: Fish pie with broccoli and carrots	Choice B: Meat pie with roast potatoes
	potatoes, milk, carrot, salmon, cod, broccoli, peas, tomato, flour, cheese, vegetable fat.	beef steak, flour, onion, potatoes, butter, oil, gravy, salt.
Nutrient	per portion	per portion
	RI (Reference Intake)	RI (Reference Intake)



Energy	408.0 kcal	20 %	668.0 kcal	33 %
Protein	31.0 g	68 %	26.0 g	58 %
Carbohydrate	48.0 g	21 %	54.0 g	24 %
Total Sugars	11.0 g	13 %	4.1 g	5 %
Fat	11.0 g	16 %	39.0 g	56 %
Saturated fat	4.0 g	20 %	22.0 g	110 %
Salt	0.5 g	9 %	2.0 g	33 %
Vitamin A	1148.0 µg		398.0 µg	
Vitamin B12	2.5 µg		1.6 µg	
Vitamin C	64 mg		5.9 mg	
Vitamin D	2.6 µg		0.9 µg	
Calcium	266.0 mg		27.0 mg	
Iron	2.7 mg		2.0 mg	

[Turn over]

BLANK PAGE





With reference to the ingredients, nutrient content and reference intake for each of the dishes, assess the suitability of each meal for an elderly person. Evaluate which meal is the healthier choice. Include justified reasons in your answer. [12 marks]

25

[Turn over]

Vertical lines for writing.





Eight vertical lines are spaced evenly across the page, serving as a guide for writing.

[Turn over]

Vertical lines for writing.





Eight vertical lines are spaced evenly across the page, serving as a guide for writing.

[Turn over]

BLANK PAGE

[Turn over]



0 3 . 3

Explain the function of the following ingredients when making shortcrust pastry. [4 marks]

Plain flour

Fats

[Turn over]



BLANK PAGE



QUESTION 4 is about food science.

0 4 . 1

Complete TABLE 2 below to match the sauce with the correct sauce making method. [3 marks]

Sauce making methods:
Starch based
Emulsion
Reduction

TABLE 2

TYPE OF SAUCE	SAUCE MAKING METHOD
Hollandaise sauce	
Roux/all in one sauce	
Tomato pasta sauce	

[Turn over]



0 4 . 3

Explain how gelatinisation takes place when making a starch based sauce. [6 marks]

[Turn over]



0 4 . 4

Describe how the following raising agents work.

Give an example of a recipe that uses each method.

Name a chemical raising agent

Describe how it works



Example of a recipe using this chemical raising agent

[4 marks]

[Turn over]



Name a biological raising agent

Describe how it works



Example of a recipe using this biological raising agent

[4 marks]

20

[Turn over]



QUESTION 5 is about food choices.

0 5 . 1

Sales of organic food and drinks in the UK are growing.

Analyse and evaluate why an increasing number of consumers are choosing organic food and drinks. [8 marks]

0 5 . 2

Explain the advantages and disadvantages of Genetically Modified (GM) foods. [6 marks]

Advantages



BLANK PAGE

[Turn over]



QUESTION 6.1 is about food processing and production.

0 6 . 1

TABLE 3

Heat treatment of milk	
Pasteurisation	heated at 72 °C for 15 seconds
Sterilisation	heated at 110–130 °C for 30 minutes
Ultra heat treated (UHT)	heated at 135 °C for 1 second

[6 marks]

Using TABLE 3 above, explain how the different heat treatment methods:

allow milk to last longer



affect the nutrition, taste and appearance of milk

[Turn over]



Explain some of the concerns people have about their use.

[Turn over]



END OF QUESTIONS



BLANK PAGE



BLANK PAGE

For Examiner's Use	
Question	Mark
1	
2	
3	
4	
5	
6	
TOTAL	

Copyright information

For confidentiality purposes, from the November 2015 examination series, acknowledgements of third party copyright material will be published in a separate booklet rather than including them on the examination paper or support materials. This booklet is published after each examination series and is available for free download from www.aqa.org.uk after the live examination series.

Permission to reproduce all copyright material has been applied for. In some cases, efforts to contact copyright-holders may have been unsuccessful and AQA will be happy to rectify any omissions of acknowledgements. If you have any queries please contact the Copyright Team, AQA, Stag Hill House, Guildford, GU2 7XJ.

Copyright © 2018 AQA and its licensors. All rights reserved.

G/KL/Jun18/8585/W/E2



5 8