## $A Q A{ }^{\square}$

Please write clearly in block capitals.

Centre number

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Candidate number


Surname
Forename(s)
Candidate signature

## GCSE

## FOOD PREPARATION AND NUTRITION

## Paper 1 Food Preparation and Nutrition

Time allowed: 1 hour 45 minutes

## Materials

For this paper you must have:

- a black pen
- a pencil.


## Instructions

- Use black ink or black ball-point pen.
- Fill in the boxes at the top of this page.
- Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- If you need extra space for your answer(s), use the lined pages at the end of this book. Write the question number against your answer(s).

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

- Do all rough work in this book. Cross through any work you do not want to be marked.


## Information

- The marks for questions are shown in brackets.
- The total number of marks available for this paper is 100.
- You are reminded of the need for good English and clear presentation in your answers.
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
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 $\square$

| $\mathbf{0}$ | $\mathbf{1}$. | $\mathbf{1}$ Which of the following foods is a protein alternative? |
| :--- | :--- | :--- |

A Cheese


B Chicken


C Egg


D Tofu


| $\mathbf{0}$ | $\mathbf{1}$ | $\mathbf{2} \quad$ Sodium is needed in the body to |
| :--- | :--- | :--- | :--- |

A help absorb iron.
B maintain water balance.
C make teeth and bones strong.
D protect connective tissue. $\square$

| 0 | 1 | 3 |
| :--- | :--- | :--- |$\quad$ A diet deficient in Vitamin A can cause

A anaemia.


B night blindness.
C rickets.


D scurvy.


| 0 | 1 | 4 |
| :--- | :--- | :--- | Which bacteria are spread by coughing and sneezing?

A Campylobacter
B E-coli

C Listeria
D Staphylococcus aureus


| $\mathbf{0}$ | $\mathbf{1} .5$ | $\mathbf{5}$ Which type of fish is most suitable for storing safely at an ambient temperature? |
| :--- | :--- | :--- |

A Canned
B Fresh
C Frozen
D Smoked


0

| 0 | 1 | $\mathbf{1}$ |
| :--- | :--- | :--- |

A carbon footprint.
B fairtrade.
C food waste.
D genetic modification. $\square$

| 0 | 1 | $\mathbf{7}$ | Chilled foods are best stored at |
| :--- | :--- | :--- | :--- |

A $-18^{\circ} \mathrm{C}$


B $-3^{\circ} \mathrm{C}$


C $2^{\circ} \mathrm{C}$


D $9^{\circ} \mathrm{C}$


| $\mathbf{0}$ | $\mathbf{1} .8$ | 8 |
| :--- | :--- | :--- |

A Vitamin B


B Vitamin C


C Vitamin D


D Vitamin K $\square$

| 0 | 1 | $\mathbf{9}$ When making a sauce, gelatinisation is fully complete at |
| :--- | :--- | :--- | :--- |

A $40^{\circ} \mathrm{C}$
B $60^{\circ} \mathrm{C}$
C $80^{\circ} \mathrm{C}$
D $100^{\circ} \mathrm{C}$
$\square$


0

| $\mathbf{0}$ | $\mathbf{1}$. | $\mathbf{1}$ | $\mathbf{0}$ | An ingredient used to denature protein in a marinade is |
| :--- | :--- | :--- | :--- | :--- |

A black pepper.
B brown sugar.
C lemon juice.
D vegetable oil.

| $\mathbf{0}$ | $\mathbf{1}$. | $\mathbf{1}$ | $\mathbf{1}$ |
| :--- | :--- | :--- | :--- | Flour is fortified with which mineral?

A Fluoride


B lodine
C Iron


D Phosphorus $\square$

| $\mathbf{0}$ | $\mathbf{1}$ | $\mathbf{1}$ | $\mathbf{2}$ Which food is an example of primary processing? |
| :--- | :--- | :--- | :--- |

A Butter $\square$
B Jam


C Milk


D Pasta


| $\mathbf{0}$ | $\mathbf{1}$. | $\mathbf{1}$ | $\mathbf{3}$ |
| :--- | :--- | :--- | :--- | :--- |

A Vitamins $A$ and $B$


B Vitamins B and K


C Vitamins C and D $\square$
D Vitamins D and E

| 0 | 1 | $\mathbf{1}$ | $\mathbf{4}$ |
| :--- | :--- | :--- | :--- |

A Fructose
B Glycerol


C Lactose
D Starch $\square$

| 0 | 1 | $\mathbf{1}$ | 5 |
| :--- | :--- | :--- | :--- | The process of bread changing colour during baking is

A dextrinisation. $\square$
B enzymic browning. $\square$
C gelatinisation.


D oxidation. $\square$

| $\mathbf{0}$ | $\mathbf{1}$ | $\mathbf{1}$ | $\mathbf{6}$ | When making pastry, rubbing fat into flour to create a waterproof coating is called |
| :--- | :--- | :--- | :--- | :--- | [1 mark]

A caramelisation. $\square$
B coagulation. 0

C emulsification.


D shortening. $\square$0




## Turn over for the next question

| 0 | $\mathbf{3} .1$ | 1 |
| :--- | :--- | :--- |

Information about this packed lunch is given below.

## Packed Lunch

Cheese sandwich, made with white bread and butter
Salt and vinegar crisps
Chocolate cereal bar
Bag of jelly sweets
Bottle of fizzy lemonade

Using this information and your knowledge of nutrition and the healthy eating guidelines:

- analyse the suitability of this packed lunch for Amy
- evaluate and explain how this packed lunch could be improved to meet current healthy eating guidelines.
[12 marks]
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Answer lines continue on the next page


| $\mathbf{0}$ | $\mathbf{3}$ | $\mathbf{2}$ Give three functions of fat in the diet. |
| :--- | :--- | :--- |

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$\qquad$
2

3
$\qquad$
$\qquad$

| $\mathbf{0}$ | $\mathbf{3} . \mathbf{3}$ | Explain the term protein complementation. |
| :--- | :--- | :--- | :--- |

Give examples in your answer.
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Question 3 continues on the next page

| $\mathbf{0}$ | $\mathbf{3} .4$ Explain what dietary advice you would give to teenage girls to prevent iron |
| :--- | :--- | :--- | deficiency anaemia.

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| 0 | 4. | 1 |
| :--- | :--- | :--- | \(\begin{aligned} \& Explain how different moral and ethical beliefs can affect the food choices we <br>

\& make.\end{aligned}\) [6 marks]
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Question 4 continues on the next page


| 0 | 4 | 3 |
| :--- | :--- | :--- | when buying food.

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Coronary heart disease and high blood pressure are major risks affecting long-term health.

- Analyse the reasons for the increase in coronary heart disease and high blood pressure in the UK.
- Evaluate how diet and lifestyle choices can reduce these health risks.
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| 0 | 6 | 1 |
| :--- | :--- | :--- | Figure 1 shows the parts of a wheat grain. Milling is the process that turns wheat grain into flour.

Figure 1


Give two reasons for each milling stage.

The first one has been done for you.

## Cleaning the grain

1. To remove dirt.
2. To soften the grain.

Crushing and rolling the grain

1. $\qquad$
2. $\qquad$
$\checkmark$
Sieving the crushed grain
3. $\qquad$
4. $\qquad$


- warm water
- bread flour
- salt
- yeast

Complete the table to show two functional and/or chemical properties of each ingredient.

The first one has been done for you.

| 0 | 6 | 3 |
| :--- | :--- | :--- |
| 3 | $C h e e s e ~ s c o n e s ~ w e r e ~ m a d e ~ w h i c h ~ h a d ~ t h e ~ f o l l o w i n g ~ f a u l t s: ~$ |  |

- unpleasant flavour
- heavy texture
- uneven colour

Complete the table to show two possible reasons for each fault.
Do not repeat your answers

| Faults |  |
| :---: | :--- |
| Unpleasant flavour | Reasons for faults |
|  | 2. |
| Heavy texture | 2. |
|  | 1. |
|  | 1. |

## END OF QUESTIONS

There are no questions printed on this page

DO NOT WRITE ON THIS PAGE ANSWER IN THE SPACES PROVIDED





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Do not write

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