



GENERAL CERTIFICATE OF SECONDARY EDUCATION

DESIGN AND TECHNOLOGY

Food Technology

Technical Aspects of Designing and Making

A524



Candidates answer on the Question Paper

OCR Supplied Materials:

None

Other Materials Required:

None

Friday 29 January 2010

Afternoon

Duration: 1 hour 15 minutes



Candidate Forename					Candidate Surname				
-----------------------	--	--	--	--	----------------------	--	--	--	--

Centre Number						Candidate Number			
---------------	--	--	--	--	--	------------------	--	--	--

INSTRUCTIONS TO CANDIDATES

- Write your name clearly in capital letters, your Centre Number and Candidate Number in the boxes above.
- Use black ink. Pencil may be used for graphs and diagrams only.
- Read each question carefully and make sure that you know what you have to do before starting your answer.
- Answer **all** the questions in Section A **and** Section B.
- Do **not** write in the bar codes.
- Write your answer to each question in the space provided.

INFORMATION FOR CANDIDATES

- The number of marks is given in brackets [] at the end of each question or part question.
- The total number of marks for this paper is **60**.
- Your Quality of Written Communication is assessed in questions marked with an asterisk (*)
- This document consists of **12** pages. Any blank pages are indicated.

Section A

Answer **all** questions.

- 1 Fig. 1 shows a fruit and vegetable stall in a local market.



Fig. 1

- (a) (i) How many portions of fruit and vegetables are we advised to eat each day?

..... [1]

- (ii) State **two** reasons why we are being encouraged to eat more fruit and vegetables.

Reason 1 [1]

Reason 2 [1]

- (b) Give **two** reasons why some people choose to buy fruit and vegetables from a market stall instead of a supermarket.

Reason 1 [1]

Reason 2 [1]

- (c) Sometimes young children do not want to eat fruit and vegetables.

State **two** ways that parents/carers could encourage a young child to eat more fruit and vegetables.

1 [1]

2 [1]

- (d) In September and October apples are plentiful and cheap to buy.

State **two** ways that a family could preserve some apples to use later in the year.

1..... [1]

2..... [1]

- (e) When apples are peeled they will go brown.

- (i) State **one** method used to prevent apples going brown when peeled.

..... [1]

- (ii) Explain how this method prevents apples from going brown.

.....

.....

..... [2]

[Total: 12]

- 2 Fig. 2 shows a ready meal produced for children.

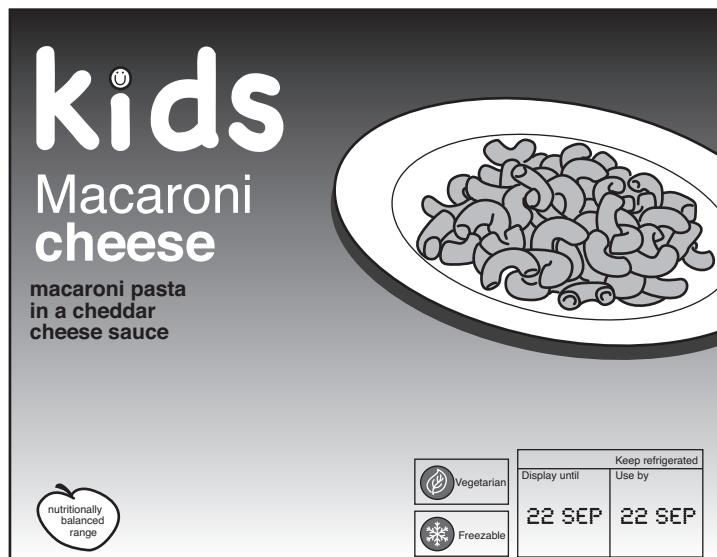


Fig. 2

- (a) State the name of **two** nutrients found in macaroni cheese.

1..... [1]

2..... [1]

- (b) Give **two** factors other than the nutritional value that might influence a parent/carer in choosing macaroni cheese for a child's meal.

Factor 1..... [1]

Factor 2..... [1]

- (c) Macaroni cheese is not very colourful.

State **one** way of making macaroni cheese more colourful.

..... [1]

- (d) (i) State the name of **one** ingredient that could be used to thicken the cheese sauce in macaroni cheese.

..... [1]

- (ii) A cheese sauce is thickened by the process of gelatinisation.

Explain the process of gelatinisation.

.....
.....
.....
.....
.....
.....
.....
.....
.....

[4]

- (e) Explain **one** moral issue that a food manufacturer might need to consider when designing and making food products.

.....
.....
.....
.....
.....
.....

[2]

[Total: 12]

- 3 Fig. 3 shows the storage of a fresh cream cake in a refrigerator.

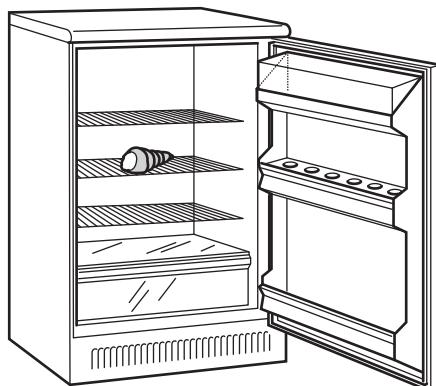


Fig. 3

- (a) Where in the refrigerator shown in Fig. 3 would raw meat be stored?
Tick the correct answer.

Above the fresh cream cake	<input type="checkbox"/>
Below the fresh cream cake	<input type="checkbox"/>
Next to the fresh cream cake	<input type="checkbox"/>
In the door	<input type="checkbox"/>

[1]

- (b) Give **three** conditions that bacteria need to grow.

Condition 1

.....
.....

[1]

Condition 2

.....
.....

[1]

Condition 3

.....
.....

[1]

- (c) Food poisoning can be caused by cross contamination.

State what is meant by cross contamination.

.....
.....

[1]

- (d) A fresh cream cake is a 'high risk' food.

State what is meant by a 'high risk' food.

[1]

- (e*)** Explain how information on packaging helps consumers to use and store ‘high risk’ foods safely.

[6]

. [6]

[Total: 12]

Section B

Answer **all** questions.

- 4** Fig. 4 shows the label from a cook chill meal.

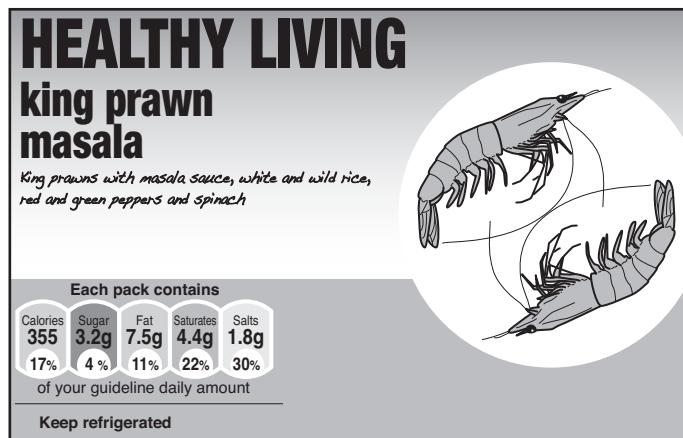


Fig. 4

- (a) (i)** State the amount of salt in the pack of King Prawn Masala.

..... [1]

- (ii)** Give **one** reason why we should reduce the amount of salt we eat.

.....
..... [1]

- (iii)** Salt is used to improve the flavour of the King Prawn Masala.

State **two** flavourings that could be used instead of salt in the King Prawn Masala.

1 [1]

2 [1]

- (b)** Fish is an important part of a healthy balanced diet.

The different types of fish available can be divided into three groups.

Complete the table by naming the groups of fish.

Give **one** example of each.

The first one is done for you.

Group of fish	Example
1 <i>Shellfish</i>	<i>Prawns</i>
2	
3	

[4]

- (c) Describe **two** different sensory analysis tests that could be carried out during the development and production of the King Prawn Masala.

Sensory test one

.....
.....
.....
..... [2]

Sensory test two

.....
.....
.....
..... [2]

[Total: 12]

- 5 (a) Milk is a rich source of calcium in the diet.

State **one** function of calcium in the diet.

[1]

- (b) The elderly need a diet rich in calcium.

State **one** target group other than the elderly who need a diet rich in calcium.

[1]

- (c) A catering company producing ready meals for elderly people wants to incorporate a new dessert product.

The specification for the dessert includes:

- use milk or milk products
- be easy to serve as single portions
- contain fibre
- appeal to an elderly person

Use sketches and/or detailed notes to design a new dessert which meets the specification.

Do not draw any packaging.

[4]

(d*) Discuss how health and safety regulations affect the food industry.

. [6]

[Total: 12]

PLEASE DO NOT WRITE ON THIS PAGE



Copyright Information

OCR is committed to seeking permission to reproduce all third-party content that it uses in its assessment materials. OCR has attempted to identify and contact all copyright holders whose work is used in this paper. To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced in the OCR Copyright Acknowledgements Booklet. This is produced for each series of examinations, is given to all schools that receive assessment material and is freely available to download from our public website (www.ocr.org.uk) after the live examination series.

If OCR has unwittingly failed to correctly acknowledge or clear any third-party content in this assessment material, OCR will be happy to correct its mistake at the earliest possible opportunity.

For queries or further information please contact the Copyright Team, First Floor, 9 Hills Road, Cambridge CB2 1GE.

OCR is part of the Cambridge Assessment Group; Cambridge Assessment is the brand name of University of Cambridge Local Examinations Syndicate (UCLES), which is itself a department of the University of Cambridge.