

CYD-BWYLLGOR ADDYSG CYMRU Tystysgrif Addysg Gyffredinol Uwch Gyfrannol/Uwch

351/02

DESIGN AND TECHNOLOGY AS FOOD TECHNOLOGY DT1

A.M. TUESDAY, 5 June 2007
(2½ Hours)

ADDITIONAL MATERIALS

In addition to this examination paper, you will need a 12 page answer book.

INSTRUCTIONS TO CANDIDATES

Answer six questions from Section A.

Answer **one** question from Section B.

INFORMATION FOR CANDIDATES

When and where appropriate, answers should be amplified and illustrated with sketches and/or diagrams.

Section A answers should be no more than half a page. This section is designed to demonstrate your **breadth** of knowledge in Food Technology.

Your **Section B** answer should be substantial and demonstrate your **depth** of knowledge in Food Technology.

You are reminded of the necessity for good English and orderly presentation in your answers.

SECTION A

Answer six questions from this section.

The maximum length of each answer should be no more than about 150 words. This section is designed to demonstrate your **breadth** of knowledge in Food Technology.

Each question carries 8 marks.

[2]

State two nutritional functions of fats within the body.

	(b)	Explain why consumers may try to change their consumption of fats away frats.	om saturated
2.		trialling the shortness, colour and flavour of the pastry used in an apple pie to be unsatisfactory.	product, it is
		est four changes to improve the pastry and, for each , state what effect you would be to have.	ald expect the $4 \times [2]$
3.	Descr	ibe the role of two members of a food product development team.	2×[4]
4.		products are manufactured by different production systems. Explain why cts are suitable for:	certain food
	(a)	batch production;	[4]
	(b)	mass production.	[4]
5.	The la	nunch of a new food product may determine its success or failure.	
	Evalu	ate four possible strategies that a food producer could use.	4×[2]
6.	(a)	Explain what standardised food components are.	[2]
	(b)	Outline three reasons why manufacturers use standardised food components.	$3 \times [2]$

1.

7.	Desc	ribe the influence that celebrity chefs have on the development of new food products.	[8]
8.	Discu	ass the advantages and disadvantages of using plastics for packaging food products.	[8]
9.	(a)	Define the term <i>Just in Time (JIT)</i> in food manufacturing.	[2]
	(b)	List three benefits of JIT to the food manufacturer.	3×[2]
10.	Senso	bry evaluation and nutritional analysis are used by food product designers.	
	Choo	se one of these and describe how it is:	
	(a)	carried out;	[4]
	(b)	used to improve food products.	[4]

(351-02) **Turn over.**

SECTION B

Answer one question from this section.

Your answer should be substantial and show the **depth** of your knowledge in Food Technology.

Each question carries 22 marks, 2 of which are for clarity of communication.

11. Eggs have a number of properties which make them useful to food manufacturers.

Describe in detail **two** of these properties and explain how these are used in the manufacture of named food products. $2 \times [10]$

Clarity of communication.

[2]

12. Social, moral, political and ethical issues all affect the food we eat.

Discuss this statement. [22]

13. The applications of ICT have a significant effect on traditional food manufacturing processes.

Discuss the advantages and disadvantages the use of ICT has had on food manufacturing processes.

[22]