

## **GCE A Level**

1113/02

# DESIGN & TECHNOLOGY FOOD TECHNOLOGY DT3

P.M. THURSDAY, 23 June 2011  $2^{1/2}$  hours

#### ADDITIONAL MATERIALS

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

### INSTRUCTIONS TO CANDIDATES

Use black ink or black ball-point pen.

Answer three questions from Section A.

Answer three questions from Section B.

Answer **two** questions from Section C.

#### INFORMATION FOR CANDIDATES

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

**Section A** and **Section B** answers are designed to demonstrate your **breadth** of knowledge in Food Technology.

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

Candidates are reminded of the necessity for good English and orderly presentation in their answers.

## **SECTION A**

Answer three questions from this section.

This section is designed to demonstrate your **breadth** of knowledge in Food Technology.

# Each question carries 8 marks.

1.	Describe how <i>technology-push</i> can influence the creation of new food products. [8]
2.	Antioxidants, preservatives and emulsifiers are widely used by food manufacturers to maintain the quality of food products.
	Explain the use of <b>two</b> of these in named food products. $2 \times [4]$
3.	The Food Safety Act, 1990 and the General Food Hygiene Regulations, 1995 are important legislation for food manufacturers.
	Outline the main features of <b>one</b> of these pieces of legislation. [8]
4.	Explain <b>four</b> important environmental issues that face food technologists when developing new food products or rejuvenating existing food products. $4 \times [2]$
5.	Young children and elderly people are both groups of consumers with specific needs.
	Describe the most important factors a food technologist would have to consider when designing food products for <b>one</b> of these groups. [8]

## **SECTION B**

Answer three questions from this section.

This section is designed to demonstrate your breadth of knowledge in Food Technology.

# Each question carries 8 marks.

6.	Desc	ribe how disassembly helps food technologists to improve food products.	[8]
7.		ify <b>three</b> important aspects of project planning and explain why they need to be in planning to closely, to ensure the successful completion of a food product at school level	
8.	Ident	ify the features that influence how the price of a food product is determined.	[8]
9.	In 2009 the Food Standards Agency launched a campaign to raise awareness of the health re of eating too much saturated fat.		
	(a)	Outline the health implications of a diet high in saturated fat.	[4]
	(b)	Evaluate the impact of substituting saturated fat in food products from the consume point of view.	ers' [4]
10.		y food products are batch-produced. Evaluate the advantages <b>and</b> disadvantages of the of production.	his [8]

(1113-02) **Turn over.** 

### **SECTION C**

Answer two questions from this section.

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

#### Each question carries 26 marks.

- 11. Discuss the impact that the work of a named chef, restaurateur or food writer of your choice, from the early 70s to the present day, has had on the development of a food product or range of food products. [26]
- 12. Describe the effects that appropriate material selection has had on the success of a specific food product that you have made in terms of function, performance and aesthetics. [26]
- 13. Evaluate how cultural and socio-economic trends have impacted on the development of particular named food products. [26]
- 14. Food Technologists can have a significant positive impact on the future of the planet.

Discuss the ways that the design and manufacture of food products can support and extend the continued existence of a balanced environment. [26]

15. Explain how a rigorous system of evaluating a prototype can lead to incremental developments that can ensure the future success of a manufactured food product. [26]