



Examiners' Report June 2012

GCE Design & Technology: Food Technology 6FT02 01

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Introduction

This paper focuses on examining candidates' knowledge and understanding of a wide range of ingredients, components, additives and processes used in the design and production of food products. There is a particular emphasis on the physical nature and working properties of food components. This includes the key areas of the industrial application of food technology, including: food safety and hygiene, food quality control, preparation, processing, preservation and packaging of food and good manufacturing practice in the food industry.

In this examination, candidates have made good progress with the specification and there were a range of levels of outcome, as would be expected with the mixed cohort of students. The coverage of the subject content was broad and varied, effectively testing the candidates' technical knowledge and understanding of GCE Food Technology. The 'ramped' nature of the exam paper, and the variety of questions styles and command words promoted accessibility to students of all ability levels. Progression and application of knowledge and understanding within the subject area was evident, promoting stretch and challenge opportunities for higher ability candidates.

Marks were scored evenly across all areas of the paper, with effective differentiation throughout the paper.

Centres need to be aware of the necessity to prepare candidates for this exam by ensuring that they have a full understanding of the requirements of different question types: 'name', 'state', 'give', 'describe', 'outline', 'evaluate' and 'explain'. Often, candidates had difficulty in achieving the full marks for questions that asked for an explanation, because their answers were not supported with relevant linked examples or reasoning. Extended writing answers were much better organised this year, with good planning and use of terminology presented by most candidates.

Application and detail, rather than length, is the key to high marks. Additional pieces of paper are unhelpful to the marking process, and centres should note that the amount of space provided in the booklet for answers, is more than we would expect any answer to take, and not a recommendation about the amount candidates should write. Technical terminology in written answers was significantly better, with some outstanding responses particularly to the extended writing tasks.

Question 1 (a)

This question focused on the nature and application of microbiology through the identification of the types of organisms that are significant in food technology. Any **two** from the following types of micro-organisms listed below, were acceptable and this was answered well by the cohort of candidates.

- Bacterium / bacteria
- Moulds
- Yeast / yeasts
- Fungi

1 (a) Name two types of micro-organisms which are significant in food technology.	(2)
1 Bacteria-upores	
2 enzymes	



Enzymes are not micro-organisms, so only 1 mark was achieved for this response.

Question 1 (b)

This was a very well answered question with a wide range of accurate responses focusing on the reasons for the increase in the incidence of food poisoning. The most popular answers related to the increased production of food and meals outside of the home, lack of basic cooking skills amongst groups of the population, misunderstandings about date marks on the food packaging and issues of personal hygiene. Many references to the source and origin of foods, cross contamination with high risk foods and inaccurate reheating of foods provided an acceptable range of responses. It was pleasing to observe that students are aware of how lifestyle changes have impacted upon our eating habits, and the way food is prepared and processed, giving rise to some reflective answers that showed good depth and application of understanding in their answers.

(b) Give two reasons why there is an increase in cases of food poisoning.	(2)
1 More people eating out at resterants	or
take aways so have no control over lood po	eperation.
2 Less July trained staff at resterants	3/
take aways	



Two excellent answers linked to the preparation of foods outside of the home and insufficient training given to catering staff, are rewarded with full marks.

1 Because Sood isn't being stored outside of the danger Zone (5° 65°) Restaurts with out the Me Maht Cooking	(b) Give tw	o reasons	why there	is an inc	rease in ca	ises of food	i poisoning.	(2)	
the danger Zone (5° (65°)	1 Becaus	c So	od is	rt	being	Store	l out	side of	(i.e.i.e.eeeeeeeeeeeeeeeeeeeeeeeeeeeeee
Restaur to might not the Me what Cooking	the o	larger	Zone	(3	Tor 6	304)			
12 23397040 777. 70 000 70	2 Rester	en Es	Might	not	use	Re	Nght	Woking	



Good reference to danger zone temperature range and an understanding of temperature control during cooking, is rewarded with 2 marks.

(D) Give two reasons why there is an increase in cases or rood poisoning.

(2)

1 cartain inatal water supplies from posicides

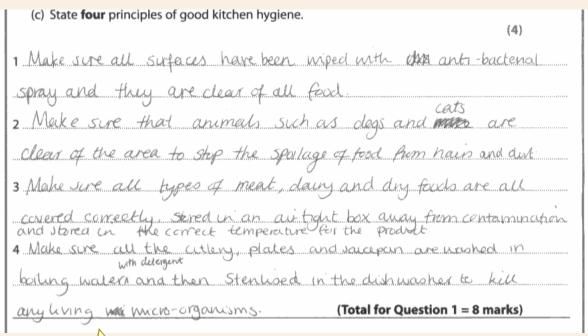
2 mixed food products between raw and carded meals



A good answer demonstrating an understanding of cross contamination between foods and chemical contamination from pesticides in our water supply.

Question 1 (c)

The key to success with this question was reading the question carefully and using kitchen hygiene as the focus for the answer, rather than general hygiene issues. Some candidates purely focused on personal hygiene, and as a result limited their access to marks. However, there was some excellent application of knowledge linked to waste management, industrial kitchen design (hand washing, storage facilities, running water, location of doors and waste), HACCP, code of conduct and food storage areas.





A detailed, thorough and accurate answer identifying four principles of good kitchen hygiene.



A significant number of responses contained a wide range of knowledge. Candidates were aware of requirements such as two doors between toilets and kitchen, plus other kitchen design issues. Other incorrect answers that appeared frequently were "notices telling staff to wash hands" and a vague response "store foods correctly". Many lost a mark by repeating "clean surfaces" and then "clean equipment".

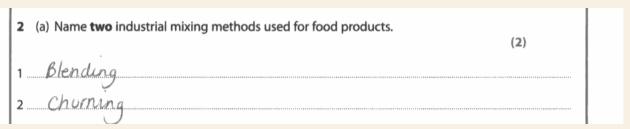
(c) State four principles of good kitchen hygiene.	
	(4)
1 Ensure there is a continue flow of fresh	***************************************
LYONTER Provided	*************
P	
2 Ensure that all tollers are maintained a	rud
Clean ensuring that they are not near the	ベントとつをロ
3 Ensure that staff are provided with lockers	X
and correct alorting thank washing faciliti	
4 Ensure that the Kitchen is cleaned and	***************************************
maintained Storing food correctly	***************************************



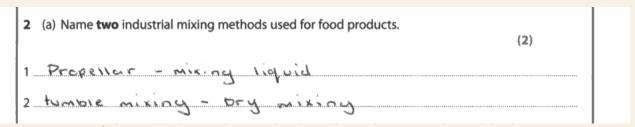
The focus on water supply, location of toilets away from the industrial food preparation area, provision of hand washing facilities and lockers for staff achieves full marks for this answer.

Question 2 (a)

The mixing stages in the commercial manufacture of food products was a focus for this question, linked specifically to different mixing methods. Answers could have been related to mixing methods for liquids or solids. A popular question, with some good answers focusing on ribbon mixing and tumbling were seen by examiners, but a number of candidates commented on domestic preparation or cleaning methods, and were therefore unable to access the full marks.









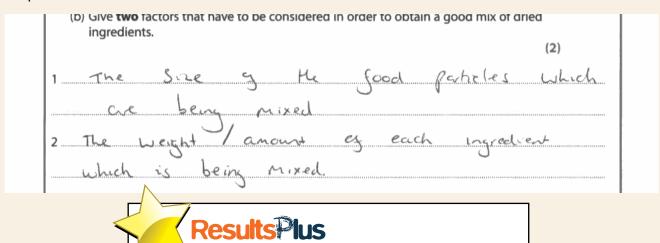
Mixing was not included as an acceptable answer on the mark scheme, as this was in the question.

This response received full marks with two good answers.

Question 2 (b)

Following on from the previous question, this question provided a ramped style to allow candidates to apply their knowledge and understanding of the principles of the mixing processes. The question focused on the factors that have to be considered in order to obtain a good mix of dried ingredients.

Most candidates knew this topic well, with some excellent depth and detail provided in their responses.



Examiner Comments

Two accurate responses are awarded with 2 marks.

Question 2 (c)

Continuing with the theme of the question related to the stages in the commercial manufacture of food products in Unit 2.4, the style of the question changed from the previous 'name' and 'give' command words to 'outline'. This created the opportunity for candidates to consider the benefits of the homogenisation of liquids and show more technical knowledge. Homogenisation was not fully understood and some candidates incorrectly believed it to be a method of preservation rather than a process that alters consistency or sensory properties. Many responses included accurate, well explained information showing knowledge on emulsions and stability, as well as the resulting sensory properties. However, where candidates confused sterilisation and homogenisation, answers were muddled and lacked clarity or accuracy.

(c) Outline the benefits of the homogenisation of liquids.

The addition Of sats into the liquid will increase shelf-lise as well as provide some degree of slavour to the product, and also possibly adour and texture.



A short, concise answer focusing on the main benefits of homogenisation linked to storage and sensory properties.



Bullet pointed answers could have organised the candidates answer.

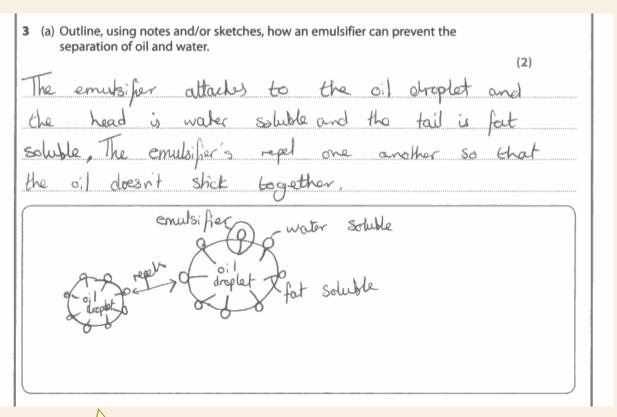
Homogenisation is used in mily tool
to reduce the Size of the fait droplets
for an expect mix throughout Its a
benifit because as a heat treatment
it can kill larious backeria. The distribution
of the fat droplets will be equal
providing a good Constant expect flavour
and colour Plso milk is a emulsion of
fat and water so the droplets need to
be Small for a Perishable Emulsion



Reduced fat globule size creating an even mix gains the initial two marks, followed by a link to a good consistency in texture and flavour being rewarded with full marks.

Question 3 (a)

Emulsifying agents is a key topic within the materials, components/ingredients and working properties section of Unit 2.3, linked to the nature, functional properties and uses of additives. Candidates were asked to outline how an emulsifier can prevent the separation of oil and water. Many candidates created an accurate and correctly labelled diagram of an emulsifier and gained two marks this way. Few candidates wrote an explanation which was worthy of two marks – most could describe the two parts of an emulsifier, but not explain in words how it worked by surrounding the droplets. Other candidates showed excellent knowledge of GMS and mono/triglycerides, whilst at the other end of the ability spectrum, some candidates just discussed what happened when oil and water were shaken.





The correctly labelled diagram shows the emulsifier joining substances that contain both hydrophylic and hydrophobic molecules, preventing droplets joining up.

Question 3 (b)

This question focused on the description of the working characteristics of a stabiliser in ice cream, linked to sensory properties, performance and user requirements, from Unit 2.3. A range of responses were seen across the cohort of students, with many showing a good understanding of stabilisers in commercial food preparation.

A range of good descriptions were given about the ability of stabilisers to absorb and hold water, and the consequent effect on texture. Candidates showed good knowledge of the functions of stabilisers, discussing slow thaw and reducing drip.

Stabilisers allows the emuliple few to work And not Seperate and again for example for the oil and water in ice-cream, uses an emuliprier to Step Mem from Seperating. The Stabiliser then Steps them from Seperating again. Also it helps with the low-crystals forming in ice-cream.

With the low-crystals forming in ice-cream.

With a Stabiliser ice-cream crystals are Small, which is bitter than large when ice-cream thous from frozen this will have a better the suff wire Smaller we-crystals. Also may improve taste and texture.



This answer reflects the general responses to this question from the cohort of candidates, where some additional technical language and terminology (bind/ hold large qualities of water/ reduce drip) would have secured full marks. 3 marks awarded for this answer.

(b) Describe the function of a stabiliser in ice cream.

(4)

In ice cream stabilisers prevent the ice-cream from 'dipping' over your hand. It helps stabilise the ice crystals. Stabilisers work by binding up or absorbing mater, so in ice cream this would have the effect of preventing the melting/almipping (for alonger time) As the stabilisers would be wolding the water content, so it can't drip (Obviously me ice cream will eventually melt under certain temperatures but stabilisers show this effect day).



3 marks awarded for this answer linked to binding or holding of water by the stabiliser to prevent melting /drip and the link to ice crystal formation.

Question 3 (c)

This question related to Unit 2.3, nature and functional properties affecting the characteristics of foods. It focused on how four named additives are used as aids in food processing. Most candidates achieved at least 1 mark for nutrients and/or anti caking agents. Solvents and sequestrants were answered poorly.

(c) State why the following four additives are used in food processing. (4)	
Anti-caking agents - these are used to prevent the bulking or	bbbbretetete
cumping together of compeners (pariculary used	>>>======qe=q4>
for cake mixes).	
solvents may be added to improve me small of a produc	I.,
making it more fresh/pleasant to consumor	**********

Sequestrants improve the flavour of the food product	
	1110000000
	7111118888888
Nutrients Some foods e-g margarine have to be fortified u	ith
numers by Law: Margarine vits A+D. Two is to increa	s25
a products nutritional value	immin



2 marks awarded for the correct use of anti-caking agents and nutrients. Many candidates were able to support their answer with an example, and this was helpful to the response.

(c) State why the following four additives are used in food processing.

(4)

Anti-caking agents The Additives (e.g. magnessium subsorbe) allow free flow in mixtures they prevent moisture maintained the mixture strick hopether e.g. caring sugar solvents help the food (ast longer by preserving it e.g. the use of sorbic acid—uses salt to hill backerian salt absorbs maisture and destroys the backers preserving the backers preserving the solvers. Sequestrants shop the oxidation of food occurring when sources salt go absorbic acid

Nutrients additives can be used to put which make the used for a sale of products. For example they add the reals.



Some confusion about the use of solvents in this answer, but the addition of an example (flouride in water) aiding the nutritional content of the product, shows understanding of fortification. Vitamin C and D are not added to breakfast cereals.

The answers for anti-caking agents, sequestrants and nutrients are accurate and rewarded with 3 marks.

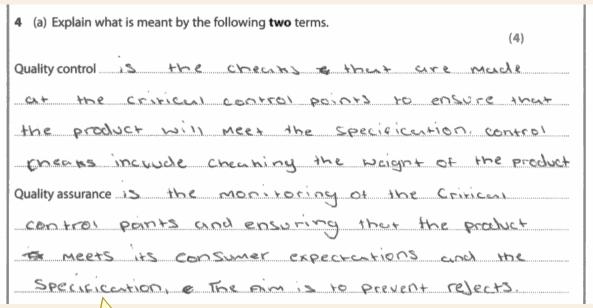
Question 4 (a)

This question focussed on Unit 2.5 Quality, linked to the principles and application of good manufacturing practice when manufacturing a range of different food products, detailed in the subject specification. The safety of food and consistent quality are two expectations that consumers have when they purchase food. The different stages in product design and manufacture need to meet these demands, to ensure that consumers are happy with their purchase and the food industry is confident that they have delivered on their promises.

In the food industry, **standards** are met and maintained through the application and use of **quality control** and **quality assurance** procedures. This is called **good manufacturing practise (GMP).** It is a term that covers the total manufacturing process and quality assurance procedures aimed at maintaining quality, ensuring that food products are produced to consistent standards.

There was some confusion between QA and QC in candidate's responses, and this was quite surprising given the emphasis placed upon 'quality' in coursework tasks for 6FT01 and 6FT04.

Many candidates described quality controls as steps along the production line rather than being the checks or tests carried out to ensure products meet the expected quality / specification. Many were able to give good examples of quality controls. Quality assurance was less well explained with a lot of repetition of the response for quality control. Good answers referred to the promise or guarantee to the consumer that the product had met certain standards, with some high level responses identifying examples of QA standards used in food manufacturing.





This is an example of a good answer achieving 4 marks



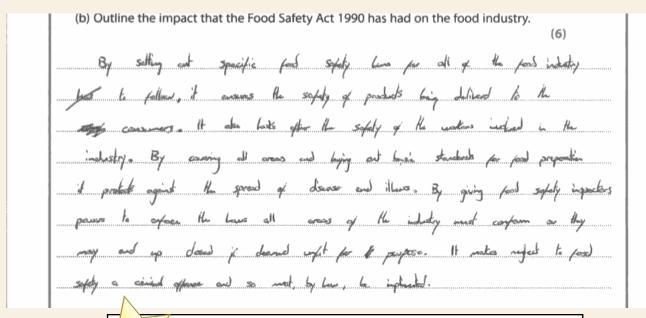
Quality control is the checking and testing of a product during and at the final stage of the production system against the specification, to ensure it meets consumer expectations and that it is safe to eat.

Quality Assurance is used to define the standard of a food product, and gives the guarantee or promise of the quality and safety of the product.

Question 4 (b)

Continuing the theme of Unit 2.5 (Quality), the focus for this question was application of the Food Safety Act 1990, with responses showing good technical knowledge and understanding. However, some candidates focused on a limited part of food manufacture or retail, rather than considering the impact on the whole of the food industry. Discussion answers tended to achieve higher marks where candidates referred to advantages and disadvantages linked to different areas of the Act.

Examiners also observed that candidates demonstrated an understanding of the application of the Food Safety Act throughout the food chain, the need for accurate information in descriptions/advertising and many candidates were able to explain the consequences of breaking the law. No one mentioned that all food premises should be registered with the local authority, and many candidates were unable to name the organisations that enforce the law.



Results lus
Examiner Comments

A concise technical response outlining the impact of the Food Safety Act 1990 on the food industry, and being rewarded with high marks.

(b) Outline the impact that the Food Safety Act 1990 has had on the food industry.

(6)

This means that all food many actives must heep records as where this have sowred all as their ingredients and each stage that has been completed with the product. In addition, records must be kept as any test products.

Thus is to ensure that if there is a problem with the final product when the consener records.

This is to ensure that if there is a problem with the final product when the consener records.

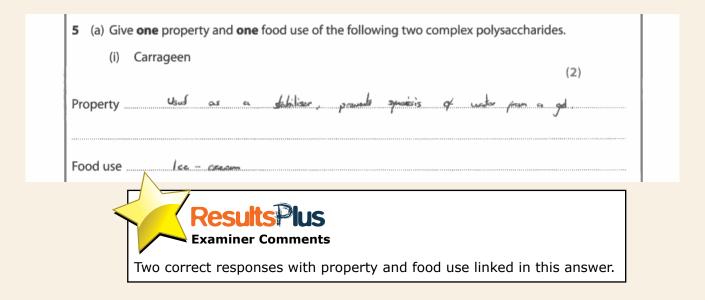
Can trace it back to its conjugated source to prevent further and source to prevent further and source to inspect facilities.



The general detail to this response focuses on record keeping, traceability, recall of products and visits to premises linked to the safety of food products during their manufacture and sale.

Question 5 (a) (i)

The question required candidates to give one property and one food use for the two complex polysaccharides: carrageen and pectin. This question was generally answered well, with candidates demonstrating a good knowledge base related to the working characteristics of two complex polysaccharides used as gelling agents in commercial food manufacture.



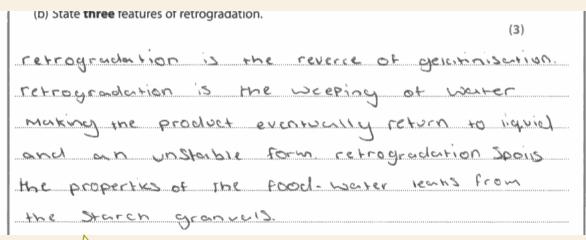
Question 5 (a) (ii)

The question required candidates to give one property and one food use for the two complex polysaccharides: carrageen and pectin. This question was generally answered well, with candidates demonstrating a good knowledge base related to the working characteristics of two complex polysaccharides used as gelling agents in commercial food manufacture.



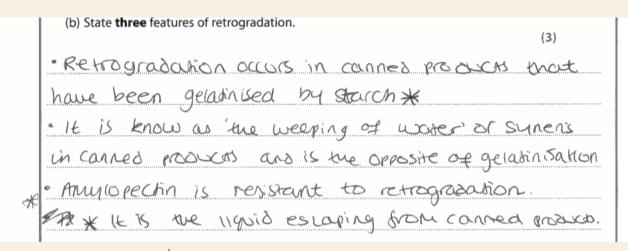
Question 5 (b)

The area of focus for this question was taken from Unit 2.3, linked to the fundamental working properties of carbohydrates. Some detailed, technically accurate answers gained maximum marks. Syneresis was described well and many candidates knew the process was the opposite of gelatinisation, and that it is irreversible. Some candidates referred to where it was likely to occur, rather than its features, but in the main this was well answered by the majority of the cohort.





An accurate response demonstrating some good technical vocabulary.





The features show a pleasing understanding of retrogradation. By bullet pointing the answers, the candidate has organised the answers with clarity.

Question 5 (c)

Continuing with the carbohydrate theme to this linked question, good knowledge was shown here by the cohort of candidates, who provided technical answers to the question. Where candidates focused their answers on the practical application of ingredients, the

most common responses were related to the amount/type of starch and amount of liquid, with the need for agitation. It was pleasing to see the practical application of theory being illustrated, with some good examples of food products that have been made at school e.g. lemon meringue pies. By using such examples, candidates demonstrated good technical understanding, and were able to link their response to acidity and sugar content affecting gelatinisation. Many candidates showed excellent knowledge, referring to the types of starch (amylose & amylopectin) but some then moved away from the question and discussed the properties of the starches in too much depth.

(c) State three factors that affect the thickening of starch in a food product. (3)
- heat - the starch grains must be heat ed before they begin
to absorb - 30- to percent of their un weight
Water. Starth grains & must be added to hot water before they can absorb anything:
- Aggnesting them- strong the starch graens wir allow them
to absorb more water allowing them to (Total for Question 5 = 10 marks) and spill the starch thidehing the Sauce.

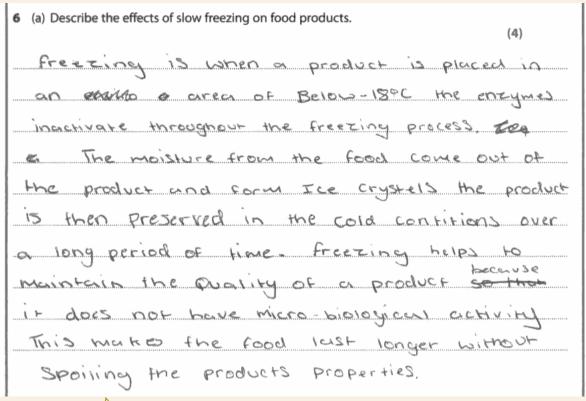


Some satisfactory understanding shown with this answer, although there is some confusion with the temperature of the water for the second response.

Question 6 (a)

This question produced some of the most disappointing responses across the exam paper. Many candidates failed to read the question correctly, or considered the benefits of slow freezing on food products, of which there are none. The use of the command word required a description of the effects of slow freezing. This required the candidates to make at least two statements about the slow freezing, and then to describe the effects on food products.

Many candidates discussed this topic with accuracy, providing technical detail in describing the reasons for large ice crystals forming, and the subsequent change to texture.





Some accuarcy shown in this answer, with links to texture changes, shelf life and micro-biological activity.



The 'describe' command word in the question requires the candidates to make two statements about slow freezing, and describe the effects of slow freezing on foods, to access the higher marks.

1 (a) Describe the effects of slow freezing on food products.

(4)

If you slow freeze a product it can cause Ice

erystaus to form. This then coads to the

denaturing of a food product come and

breaks the structure of it for example if

you slow freeze a strowberry it destroys the

structure and when you defrost it grows the

structure and when you defrost it grows the



The reference to ice crystal formation altering the structure of the fruit, causing cellular damage and an undesirable texture is rewarded with high marks.

Question 6 (b) (i)

This question required a discussion response focusing on the process and effects on food of two freezing methods: cryogenic and plate freezing, from Unit 2.4 - Industrial and commercial practice.

A few candidates gave very detailed descriptions, whilst others received no marks because of lack of important details such as "liquefied" gases being used. Plate freezing was often described as a meal put on a plate and then frozen. The processes were clearly very different, but it is likely some candidates got marks in the "effects" section for making reference to the changes in sensory characteristics, and repeating responses such as "retains texture".

*(b) Discuss the process and effects on food of the following two freezing methods. (i) Cryogenic freezing (4)
Process This Is the use of liquid Natroyen being
Sprayed on the food materials. The food moves
along a convayor belt and submerged to a High
Femperature of -1968 for are used to prevent thermal
Effects This freezes the food at high temperatures
the process is particularly good for Ervit es
cryogenic preezing is vostly used in industry.
The food freezes because of the to top cold



This candidate's initial response demonstrates good understanding of the cryogenic process, but the effect is slightly muddled, as the reference to high temperatures is inaccurate. However, the response states -196°C, so full marks are awarded.

Question 6 (b) (ii)

A range of pleasing responses were seen to this part of question 6(b)(ii), with most candidates achieving marks for the use and application of plate freezing in the food industry and how it is achieved through vertical or horizontal plates, through conduction by pressing plates tightly against the packs, and where air gaps delay heat transfer. The examples were generally accurate and most candidates could discuss in detail the physical and sensory effects on foods.

Process two very cold plates are used, the and the feed product is placed unbelieved them and pressed with the plates usually beliew -18°C and again only really effective an simplicy food shapes

Effects This will unhibit Themaphiles and merophiles around the given on au acceptance of the product on surface area covered. This process takes larger than the aryogenic breezing.



Despite the inaccurate response referencing the speed of plate freezing, the candidates answer contains two valuable points, which are rewarded with marks.

Question 7 (a)

As an extended writing exercise, this question proved to be highly successful for many candidates. It is possible to provide 3 or 4 well explained points to achieve the high marks. However, many candidates provided many more, as either a bullet pointed list, or in paragraph format, focusing on the importance of amino acids in the diet. To move the response from a lower scoring answer to one that is worthy of full marks, requires discussion with clear, effective communication throughout the detailed, technical response.

Many candidates gained maximum marks, explaining the importance of amino acids and demonstrating their ability to develop factual knowledge with examples. Some lost marks because they did not add the word "essential", and gave inaccurate knowledge about functional use. Some candidates did not refer to protein, or believed protein to be different to amino acids, whilst others confused amino acids with fatty acids. This question provided a wide range of responses from outstanding to poor, and provides good differentiation as a ramped question, with accessibility to all candidates.

7 (a) Discuss the importance of amino acids in the diet. (6)	
There are 8 essential Amino acids that	***************************************
are vilary important for the diet. The	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
DMIND acids have to be consumed through	
Food more Products J Connot produce	+++++++++++
them Bros comes Athat have all & essential	١
Amino acids have a high biological value	
this is good & because we can goin nutrient	
fish that are important for our diet meat.	····
Bullory and Aggs have the essentail amino	************
acids products that have a low biologica	<u></u>
value such as cerial are not as good at	**********
providing all the Duthierts The Amino acids	
are found in protein which helps to function	***************************************
Hourmones enzymes and the Blood Amino ac	1977
Herp our body with growth and reports.	
Amino acids thelp to ensure we stuy	************
Healthy	,,,,,,,,,,,,



7 (a) Discuss the importance of amino acids in the diet.

(6)

There are 822 essential amino acids in the diet. Humans
have to consume these in the diet as they cannot be made by
the body. Foods the contain all essential amino acids
are called High biological value or first closs proteins. These
can be found in sources such as meat and fish. Poods
that do not to contain all essontial amino acids are
called tow brological value of 2rd class proteins. These can be
found in foods such as nuts and pulses bread These are
essential and in the dietle. An example is physelalaine.
Histamine is an essectial in growth of young children.
Although foods do not contain all essential amino acids
a meal such as beans on to took will as it contains them
between the two products.



Good discussion with clarity and technical detail is rewarded with high marks.

Question 7 (b)

As the final question on the AS 6FT02 'ramped' paper, this question was designed to stretch and challenge our most able candidates, and test complex knowledge and application of subject content. The key word in the question was "characteristic", taken directly from the subject specification in Unit 2.3 - Material, components/ingredients and working properties of proteins, focusing on the physiologically active proteins: enzymes. Those candidates who did not interpret this correctly, described the many uses of enzymes in food production and restricted their access to marks. Many candidates provided accurate descriptions of enzymes, as well as using the correct scientific and technical vocabulary. The conditions that affect the performance of enzymes were given due regard by many candidates, and it was pleasing to read answers that showed depth and breadth of understanding, with some outstanding answers covering a diverse range of responses exemplified in the mark scheme.

Enzymes are physiologically active proteins. *(b) Discuss the characteristics of enzymes used in food preparation. (6)Every was within food. They we made up of posting and are vital for my biological province processes. They are often used to book down other substitues into smaller groups. One except of this is food proposition is ensymic boundy which of breaks dan the sayer within the product which results in a day of colour. Due to the guille of being all to best day substance it can be see used for many assist various things. Both resilland taking and Feldings taking for rading signer rely you everyne activity to any the red book where or the indicate of makely ager that present. Engres may also be used to give down places and textures within a product Who hoging west mayor white coate a & different placer and tarker which are soid to exhaus the meds qualities. Depoite this though the beat of congress ectivity deals be maked to energy product do not book qualities. As paid ripes the as many engine rackers their place which were the prit is best for commenter houser if left too keep the argues will go continue and the fuil will become an ippe and late as undesired qualities such as a flower &

Lated Hugh energies been denotived and so a multid to prosent them from acting is to hast and denote the anymos.



A number of accurate points raised for discussion referencing examples within food preparation.



Hand writing, although neat, is very difficult to read and causes real difficulties with the marking process.

Paper Summary

Centres are making good progress with the delivery of the GCE Food Technology specification. The progress at GCSE level related to the industrial application of food technology is having a significant impact on students' attainment at AS level, with progression and development of skills, knowledge, understanding and terminology.

Centres have a good understanding of the requirements of the GCE course. The link between the portfolio of 'creative skills' coursework and 'design and technology in practice' exam paper, is becoming more apparent as candidates apply their knowledge and understanding across the qualification.

Edexcel is committed to the development of the qualification and is supporting centres with an extensive initiative of delivering free online support meetings and traditional inset meetings focusing on developing good practice. This has also been of obvious help to those centres who attended an event, or who accessed the website support and exemplar materials.

This paper performed well and produced effective differentiation for the candidates.

Grade Boundaries

Grade boundaries for this, and all other papers, can be found on the website on this link: http://www.edexcel.com/iwantto/Pages/grade-boundaries.aspx

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