

## 2013 Health and Food Technology

# Higher

## **Finalised Marking Instructions**

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#### Part One: General Marking Principles for Health & Food Technology Higher

This information is provided to help you understand the general principles you must apply when marking candidate responses to questions in this Paper. These principles must be read in conjunction with the specific Marking Instructions for each question.

- (a) Marks for each candidate response must <u>always</u> be assigned in line with these general marking principles and the specific Marking Instructions for the relevant question. If a specific candidate response does not seem to be covered by either the principles or detailed Marking Instructions, and you are uncertain how to assess it, you must seek guidance from your Team Leader/Principal Assessor.
- (b) Marking should always be positive ie, marks should be awarded for what is correct and not deducted for errors or omissions.

#### GENERAL MARKING ADVICE: Health & Food Technology Higher

The marking schemes are written to assist in determining the "minimal acceptable answer" rather than listing every possible correct and incorrect answer. The following notes are offered to support Markers in making judgements on candidates' evidence, and apply to marking both end of unit assessments and course assessments.

### Part Two: Marking Instructions for each Question

### Section A – Short Response Questions

Que	estion	Expected Answer/s	Max Mark	Additional Guidance
1		<ol> <li>Food</li> <li>Warmth (5 - 63°C.)</li> <li>Moisture</li> <li>Time</li> <li>Oxygen</li> <li>PH.</li> <li>1 mark for correct condition</li> </ol>	1	
2		<ol> <li>Blackcurrants</li> <li>Rosehips</li> <li>Green peppers</li> <li>Kiwi fruits</li> <li>Oranges</li> <li>Lemons</li> <li>Grapefruit</li> <li>Limes</li> <li>Strawberries</li> <li>Cabbage</li> <li>Spinach</li> <li>Brussels sprouts</li> <li>Broccoli</li> <li>Bean sprouts</li> <li>Peas</li> <li>Potatoes.</li> <li>Accept other relevant answers</li> <li>mark for correct food source</li> </ol>	1	
3		<ol> <li>Liver/liver products</li> <li>Raw/partially cooked egg</li> <li>Raw egg dishes/homemade mayonnaise/ mousse/ice cream</li> <li>Raw/cured meat/fish accept examples</li> <li>Soft rind cheese/Brie/Camembert</li> <li>Unpasteurised milk/cheese/yoghurt/goats cheese</li> <li>Pate (liver/vegetable)</li> <li>Soft blue vein cheese/Danish blue/ Gorgonzola/ Roquefort</li> <li>Shark/sword fish/marlin/fresh tuna</li> <li>Nuts</li> <li>Alcohol.</li> <li>mark for correct identification of food</li> </ol>	1	

Questio	n Expected Answer/s	Max Mark	Additional Guidance
4	<ol> <li>Nutritional information</li> <li>Bar codes</li> <li>Microwave labelling scheme</li> <li>Vegetarian/allergy symbols</li> <li>Organic labels</li> <li>Star ratings for refrigerator/freezer</li> <li>Recycling symbols</li> <li>Green labels.</li> <li>Other valid voluntary information</li> <li>mark for correct identification of voluntary information</li> </ol>	1	
5	<ol> <li>Basal metabolic rate</li> <li>Age</li> <li>Gender/sex</li> <li>Weight/height/body size</li> <li>Lifestyle/physical activity level (PAL)</li> <li>Occupation</li> <li>Pregnancy</li> <li>Lactation</li> <li>Convalescence</li> <li>Weight reduction</li> <li>Vegetarianism</li> <li>State of health.</li> <li>1 mark for correct factor</li> </ol>	1	
6	Non-milk extrinsic sugars 1 mark for correct abbreviation	1	
7	<ol> <li>Bread</li> <li>Cheese</li> <li>Yoghurts</li> <li>Fish sauce</li> <li>Soy sauce</li> <li>Salami</li> <li>Pepperoni</li> <li>Alcohol</li> <li>Vinegar.</li> <li>Accept other relevant answers</li> <li>mark for correct food product</li> </ol>	1	

Question	Expected Answer/s	Max Mark	Additional Guidance
8	<ol> <li>Unfair commercial practices</li> <li>Misleading actions</li> <li>Misleading omissions</li> <li>Aggressive practices</li> <li>Accept any of the (31 Specific banned practices related to the four points above).</li> <li>mark for correct area</li> </ol>	1	
9	<ol> <li>Required for all body fluids/hydration/prevents dehydration/aids concentration</li> <li>Assists the removal of waste from the body</li> <li>Combines with NSP to prevent constipation/ bowel disorders</li> <li>Helps maintain body temperature</li> <li>Lubricates joints/membranes</li> <li>Required to carry nutrients to the cells</li> <li>Keeps linings of mucous membranes/digestive tract/bronchial tubes moist</li> <li>Needed to dissolve some nutrients.</li> <li>mark for each correct function</li> </ol>	1	
10	<ol> <li>Improve the nutritional value of foods</li> <li>Help lower blood cholesterol</li> <li>Contributes to reducing CHD/cancers</li> <li>Promotes good intestinal health/ encourages a healthy bowel</li> <li>Protects against breast cancers</li> <li>Improve physical endurance/energy boost.</li> <li>mark for each correct benefit</li> </ol>	2	
11	<ol> <li>Smoking</li> <li>Hereditary/race</li> <li>Lack of exercise</li> <li>Stress</li> <li>Gender</li> <li>Type 1 diabetes.</li> <li>1 mark for each correct factor</li> </ol>	2	

Question	Expected Answer/s	Max Mark	Additional Guidance
12	<ol> <li>New foods should be introduced gradually</li> <li>A wide variety of foods/textures/flavours should be introduced</li> <li>Foods should be lump free/pureed/sieved</li> <li>No salt/should be added to foods/restrict salt intake</li> <li>Regular eating patterns should be established</li> <li>Milk/water should be given as a drink</li> <li>By six months foods should have some lumps</li> <li>Try and avoid additives</li> <li>Restrict the intake of sugar/no sugar added</li> <li>Food should be at the correct temperature.</li> <li>1 mark for each correct point of advice</li> </ol>	2	
13	<ol> <li>To gain ideas for food products</li> <li>To gain an insight of a competitors food products</li> <li>To check/compare the quality of food product(s)</li> <li>To assess an existing food product</li> <li>To develop a new style of packaging/ labelling for the food product</li> <li>To produce a specification for a new food product</li> <li>To ensure consumers are satisfied with the food product</li> <li>To establish the functions of ingredients in the food product</li> <li>To correct problems that have occurred in the manufacturing process of the food product</li> <li>To understand the reactions of foods when mixed with other ingredients.</li> </ol>	2	

14	Advantages		
	<ol> <li>Provides an increased range of food products</li> <li>TVP/soya increases food choice for vegetarians</li> <li>Provides a wide variety of flavours/shapes/ textures to food products</li> <li>Provides the diet with NSP/prevents bowel disorders/constipation</li> <li>Raw materials can be cheap reducing food costs</li> <li>Can be kept for a long time</li> <li>Unpalatable foods (such as soya beans) can be made into nutritious food products</li> <li>Makes starch more digestible/allows glucose to enter the blood stream quicker</li> <li>Can be made without the addition of fats/ helping to meet a healthy diet/meet SDT.</li> <li>mark for correct advantage</li> <li>Some products have been deep fried/high in fat</li> <li>Extrusion cooking (of high fibre blended flour) may increase bacterial fermentation in the colon/may depress appetite</li> </ol>	2	
	<ul> <li>colon/may depress appetite</li> <li>3. (Many snack) foods produced by extrusion may be high in salt</li> <li>4. Expensive products could be produced from cheaper products.</li> <li>1 mark for correct disadvantage</li> </ul>		

### Section B

Qu	Question		E	Expected Answer/s	Max Mark	Additional Guidance
1	a			ch point of evaluation which makes needs of an <b>active female</b>	6EV	
			Opinion	positive/negative higher/ lower than RNI/EAR		
			Fact Consequence	function of nutrient/fact about nutrient consequence of the fact for the active female teenager		
		1	Energy (is lowe	r)		
		Ν	teenager (is exercise/phys	e is <b>low</b> which is bad as the <b>female</b> <b>active</b> and) requires energy for sical activity <b>therefore</b> she will feel ed/ unable to cope with activities.		
		Ν	2. Energy intake teenager (is exercise/physicontinues with	e is <b>low</b> which is bad as the <b>female</b> <b>active</b> and) requires energy for sical activity <b>therefore</b> (if she h a low intake) and remains active ome underweight.		
		Ρ	female teena energy for ex she continue	e is <b>low</b> which is good as the ager (is active and) requires ercise/physical activity <b>therefore</b> (if s with a low intake) she will avoid eight/becoming obese.		

Que	stion	Expected Answer/s	Max Mark	Additional Guidance
	2	Protein intake (is higher)		
	Р	<ul> <li>Positive</li> <li>Protein intake is higher which is good as the active female teenager can use excess protein as a secondary source of energy therefore helping to compensate her low energy intake/</li> </ul>		
	P	<ul> <li>2. Protein intake is higher which is good for the active female teenager as it would help with growth and development/ maintenance of her body tissue therefore at a time of rapid growth will ensure proper development/maintenance.</li> </ul>		
	P	<ol> <li>Protein intake is higher which is good as the active female teenager because it is required for tissue repair therefore if she falls/injures herself during activities it will help ensure tissue heals itself quickly.</li> </ol>		
	P	4. Protein intake is <b>higher</b> which is good for the <b>active female teenager</b> as it could aid the absorption of calcium <b>which</b> is necessary for development of strong teeth/bones/helps prevent osteoporosis/osteomalacia in later life.		
	3	Vitamin B2 (is higher)		
	Ρ	<ul> <li>Positive</li> <li>1. The days intake is high this is good as Vitamin B2 is required for the release of energy from carbohydrates/protein/fat/food therefore the active female teenager may not feel tired when taking part in activities.</li> </ul>		
	Ρ	<ul> <li>taking part in activities.</li> <li>Vitamin B2 intake is high this is good for the active female teenager as it is essential for normal growth therefore at a time of rapid growth it will help ensure proper development.</li> </ul>		
	Ρ	<ol> <li>Vitamin B2 intake is high this is good for the active female teenager as it is water soluble so will be excreted from the body if not used.</li> </ol>		

Question	Expected Answer/s	Max Mark	Additional Guidance
4	Vitamin A (is higher)		
P	<ul> <li>Positive</li> <li>1. Vitamin A intake is high this is good as it is required for good vision/manufacture of visual purple therefore the active female teenagers vision will not be impaired particularly in dim</li> </ul>		
P	<ol> <li>light/suffer from night blindness.</li> <li>Vitamin A intake is high this is good as it is one of the anti-oxidant vitamins therefore the active female teenager will be at a reduced risk of cancer/heart disease in later life.</li> </ol>		
P	<ol> <li>Vitamin A intake is high this is good as it is required to keep mucous membranes in the eyes/lungs/throat/digestive tract moist/free from infection therefore the active female teenager will have a resistance to infection.</li> </ol>		
P	<ul> <li>4. Vitamin A intake is high this is good as it is required for the maintenance of healthy skin therefore the active female teenager will be less likely to suffer from spots/acne.</li> </ul>		
P	<ul> <li>5. Vitamin A intake is high this is good as it is required for normal growth in children therefore this will ensure the active female teenager who is still growing will develop correctly.</li> </ul>		
N	active female teenager was pregnant as large amounts can be harmful to the developing baby		
N	<ul> <li>which may result in birth defects.</li> <li>7. Vitamin A intake is high which may be bad for the active female teenager as too much vitamin can be toxic so she may suffer from skin disorders/poor liver function/bone/muscle pain if high intake continues.</li> </ul>		

Questio	on	Expected Answer/s	Max Mark	Additional Guidance
	5	Iron (is lower)		
	Ν	<ul> <li>Negative</li> <li>1. Iron intake is low which is bad as it is required for the production/formation of haemoglobin/red blood cells which may lead to the active female teenager suffering from anaemia/</li> </ul>		
	N	<ul> <li>tiredness/exhaustion.</li> <li>Iron intake is low which is bad as it is required for the production/formation of haemoglobin/red blood cells which the active female teenager may lose through menstruation therefore at a greater risk of suffering from anaemia.</li> </ul>		
	N	3. Iron intake is <b>low</b> which is bad as it is required for the production of haemoglobin/red blood cells which transports oxygen <b>therefore</b> during <b>activity</b> the <b>female teenager</b> may have a lack of energy/feel tired/exhausted/ breathless.		
	6	Calcium (is lower)		
	Ν	<ul> <li>Negative</li> <li>1. The calcium intake is low which is bad for the active female teenager as calcium is needed for strong bones so a shortage may lead to poor bone formation/if prolonged</li> </ul>		
	Ν	<ul> <li>osteomalacia/osteoporosois in later life.</li> <li>The calcium intake is low which is bad for the active female teenager as calcium is needed for strong teeth so a lack could lead to poor teeth formation/dental caries.</li> </ul>		
	Ν	<ol> <li>The calcium intake is low which is bad for the female teenager as calcium is needed for correct functioning of muscles/ nerves so during activity she may suffer from muscle cramps/ pain/spasms.</li> </ol>		
	Ν	<ol> <li>The calcium intake is low which is bad for the female teenager as calcium is needed for blood clotting so if an accident occurs during activity she may be at risk of greater blood loss/ anaemia.</li> </ol>		

Que	estio	n	Expected Answer/s	Max Mark	Additional Guidance
		7	NSP (is higher)		
		P	<ol> <li>Positive</li> <li>The days intake of NSP is high this is good as NSP is required to eliminate waste so the active female teenager will be at less risk of developing constipation/ diverticulitis/bowel cancer/bowel disorders</li> <li>The days intake of NSP is high this is good as NSP helps control blood sugar levels in the</li> </ol>		
		Р	<ul> <li>active female teenager so energy is released slowly/steadily which/ will prevents sudden feeling of tiredness/ lack of energy during/ diabetes.</li> <li>3. The days intake of NSP is high this is good as NSP helps control cholesterol so if the active female teenager continues with intake she may be at reduced risk of heart disease in later life.</li> </ul>		
		Ρ	<ol> <li>The days intake of NSP is high this is good for the active female teenager as NSP absorbs LDL so reducing the risk of heart disease.</li> </ol>		
		P	<ol> <li>The days intake of NSP is high this is good as NSP can provide a feeling of fullness so the active female teenager is less likely to snack on high fat/high sugar foods/put on weight.</li> </ol>		
		N	<ul> <li>Negative</li> <li>6. The days intake of NSP is high this is bad as NSP can hinder the absorption of iron/calcium which could lead to a deficiency of this nutrient/anaemia/ tiredness/weakness/osteoporosis in later life in the active female teenager.</li> </ul>		

Qu	esti	on	Expected Answer/s	Max Mark	Additional Guidance
1	b		3 x 1 mark for <b>each</b> factor 3 x 1 mark for <b>each</b> explanation which identifies how the dietary factor contributes to obesity. Factor must be identified before mark can be awarded for explanation. Where factor is incorporated in the explanation this can be credited	6KU	
		1	<ul> <li>Factor – High sugar diet.</li> <li>Explanation</li> <li>1. A high intake of sugar in the diet will provide the body with extra calories/energy contributing to obesity</li> <li>2. Sweets/chocolates may contain high quantities of sugar and (if eaten regularly) will provide the body with extra calories/energy contributing to obesity</li> <li>3. Drinks with added sugar provide the body with extra calories/energy contributing to obesity</li> </ul>		extra calories = energy
		2	<ul> <li>Factor - High fat intake.</li> <li>Explanation</li> <li>1. Fat in the diet will provide body with extra energy/calories contributing to obesity</li> <li>2. Fast food tends to contain fat sugar and (if eaten regularly) will provide the body with extra calories contributing to obesity</li> <li>3. Snacks tend to contain fat and (if eaten regularly) will provide the body with extra calories contributing to obesity</li> <li>4. Animal products tend to contain fat and (if eaten regularly) will provide the body with extra calories contributing to obesity</li> <li>5. Cream cakes/sugary doughnuts contain fat and (if eaten regularly) will provide the body with extra calories contributing to obesity</li> <li>6. Frying foods in fat (on a regular basis) will add additional fat providing the body with extra calories contributing to obesity.</li> </ul>		

Qı	Question		Expected Answer/s	Max Mark	Additional Guidance
1	b		(cont)		
		3	<ul> <li>Factor – Low intake of fruit/vegetables.</li> <li>Explanation <ol> <li>Instead of eating fruit/vegetables people may snack on high fat/high sugar foods which will provide the body with extra calories contributing to obesity</li> <li>Fruit/vegetables may not be purchased in the home therefore high fat/high sugar foods may be eaten instead which will provide the body with extra calories contributing to obesity</li> <li>Fruit/vegetables add bulk to the diet/are filling so if they are not eaten regularly people may eat high fat/high sugar foods which will provide the body with extra calories contributing to obesity</li> </ol> </li> </ul>		
		4	<ul> <li>Factor – Diet high in total energy/ large portion sizes/calories.</li> <li>Explanation</li> <li>1. If more energy is consumed in a day's intake than output of energy (then over a prolonged period of time) this may be stored in the body as fat contributing to <b>obesity</b></li> <li>2. Large portion sizes may increase the calorie/ energy intake contributing to <b>obesity</b>.</li> </ul>		
		5	<ul> <li>Factor – Diet low in NSP/total complex carbohydrates.</li> <li>Explanation</li> <li>1. NSP/total complex carbohydrate add bulk to the diet/are filling so if they are not eaten regularly people may snack on high fat/high sugar foods which may contribute to obesity.</li> <li>Factor – Diet high in pre-prepared</li> </ul>		
		7	<ul> <li>Convenience meals.</li> <li>Explanation</li> <li>1. Some households consume lots of prepared convenience meals which can be high in fat/ sugar/energy so contribute to obesity</li> <li>Factor – Diet high in take away meals.</li> </ul>		
			<ul> <li>Explanation</li> <li>More takeaways/fast food meals are eaten now and as these can be high in sugar/fat/energy this may contribute to obesity.</li> </ul>		

Q	Question		Expected Answer/s	Max Mark	Additional Guidance
Q 1	b	8 8	<ul> <li>Expected Answer/s</li> <li>(cont)</li> <li>Factor – Poor food choice.</li> <li>Explanation</li> <li>Poor eating habits may have been formed in early childhood which may lead to consumption of high fat/sugar foods contributing to obesity</li> <li>Consumption of high fat/sugar snacks may be eaten in preference to regular meals which may contribute to obesity</li> <li>"Grazing" is more common, often on high/fat/sugar/energy snacks which may contribute to obesity</li> <li>Factor – Missing meals.</li> </ul>		Additional Guidance
		10	<ol> <li>Skipping meals regularly may result in a feeling of hunger this could cause overeating/binge eating of energy rich foods at a later meal which may contribute to <b>obesity</b>.</li> <li>Factor – High alcohol intake. Explanation</li> <li>A high intake of alcohol may increase calorie/ sugar intake and contribute to <b>obesity</b>.</li> </ol>		

Qı	Question		Expected Answer/s	Max Mark	Additional Guidance
1	с		4 x 1 mark for <b>each</b> point of evaluation which makes reference to <b>bread</b> in the diet.	4EV	
			Opinion positive/negative Fact about the contribution of bread		
			Consequence of the fact for the diet/health		
		Ρ	<ol> <li>Positive</li> <li>Bread is a good addition to the diet because it provides protein for the body therefore allowing growth and repair and maintenance of body cells/secondary source of energy.</li> </ol>		
		Ρ	<ol> <li>Bread is a good addition to the diet as it is fortified with calcium which is needed for the development and maintenance of bones and teeth.</li> </ol>		
		Ρ	<ol> <li>Wholemeal bread plays a good part in the diet as it is a good source of NSP, which helps to prevent constipation/ diverticular disease/bowel cancer/removes waste/haemorrhoids/ piles/ bowel disorders.</li> </ol>		
		Ρ	<ol> <li>Bread plays a good role in the diet because it may contribute to folic acid which is needed to prevent spina bifida/neural tubes defects in babies.</li> </ol>		
		Ρ	<ol> <li>Bread is a good addition to the diet because it may contain folic acid which helps to prevent anaemia.</li> </ol>		
		Ρ	<ol> <li>Bread plays a good role in the diet as it contributes to iron intake/is fortified with iron therefore helping to prevent anaemia.</li> </ol>		
		Ρ	<ol> <li>Bread is a good addition to the diet as it is low in fat therefore should not cause excess weight gain/obesity/high blood pressure/Coronary Heart Disease.</li> </ol>		
		Ρ	<ol> <li>Bread is a good addition to the diet as it is low in sugar therefore should not cause excess weight gain/obesity/high blood pressure/ Coronary Heart Disease/tooth decay/diabetes.</li> </ol>		
		Ρ	<ol> <li>Bread is a good addition to the diet as it helps to fill you up therefore you are less likely to snack on high fat/sugar/salty foods which can lead to obesity/high blood pressure.</li> </ol>		
		Ρ	<ol> <li>Bread is a good addition to the diet because it is relatively cheap to buy therefore can provide an inexpensive source of protein/carbohydrate.</li> </ol>		

Qu	Question		Expected Answer/s	Max Mark	Additional Guidance
1	С		(cont)		
		P P	<ol> <li>Bread is a good addition to the diet as it helps to meet the dietary target for an increase in bread consumption from 106g per day to 145g per day (mainly using wholemeal and brown breads) therefore contributing to good health.</li> <li>Bread is good for diabetics as it contains total complex carbohydrate which helps to regulate</li> </ol>		
		Ρ	blood sugar. 13. <b>Bread</b> is a good addition to the diet <b>as</b> it provides carbohydrate which is a source of		
		Ρ	<ul> <li>provides carbohydrate which is a source of energy for activity/people involved in sports.</li> <li>14. Bread is a good addition to the diet as it provides slow release energy which aids concentration/helps control blood sugar levels.</li> </ul>		
		Ρ	<ul> <li>15. Some breads are now fortified with omega 3</li> <li>which may be good for children as this may help the development of their brain.</li> </ul>		
		Ρ	16. Bread is a good addition to the diet as it may be fortified with omega 3 which may help lower risk of Coronary Heart Disease/ rheumatoid arthritis.		
		Ρ	<ol> <li>Bread contains salt which may be good as salt contributes to muscle/nerve activity/body fluid balance.</li> </ol>		
		Ν	<ul> <li>Negative</li> <li>1. Bread may be a bad option in a healthy diet as if a spread containing high amounts of saturated fat is used this will contribute towards obesity/</li> </ul>		
		N	<ol> <li>Coronary Heart Disease.</li> <li>Bread may be a bad option in a healthy diet if the filling/topping is high in saturated fat as this may lead to obesity/Coronary Heart Disease.</li> </ol>		
		Ν	<ol> <li>Bread may be a bad option in a healthy diet if the filling/topping is high in sugar as this may lead to obesity/Coronary Heart Disease/dental caries.</li> </ol>		
		Ν	<ol> <li>Consumption of white bread may be bad as it is low in NSP therefore leading to constipation/ diverticular disease/bowel cancer/haemorrhoids/ piles/bowel disorders.</li> </ol>		
		Ν	<ol> <li>Bread can be a bad addition to the diet as it may contains high amounts of salt which may lead to high blood pressure.</li> </ol>		
		Ν	<ol> <li>Bread may be a bad addition to the diet if someone is suffering from allergies/ intolerances/Coeliac disease as the bread may trigger the allergy due to its ingredients.</li> </ol>		
		Ν	<ol> <li>Bread can be a bad addition to the diet as contains CHO which if eaten in excess can contribute to obesity.</li> </ol>		

Qu	Question		Expected Answer/s	Max Mark	Additional Guidance
Qu 1	d	on 1	<ul> <li>Expected Answer/s</li> <li>4 x 1 mark for the effect of heat on fat/sugar Minimum of one mark to come from each fat/sugar</li> <li>Fat <ol> <li>When heated solid fat melts to a liquid</li> <li>Fats break into fatty acid and glycerol at high temperatures (200°C)/just below smoking point.</li> <li>When fat is heated it produces a blue haze/ smoke.</li> <li>If fat continues to be heated it will ignite/burn rapidly.</li> <li>If oil is overheated the nutritional quality will be reduced.</li> <li>If oil is overheated the keeping quality will be reduced.</li> </ol> </li> </ul>		Additional Guidance
		2	<ul> <li>beginning to break down if the fat is heated it will go rancid.</li> <li>Sugars</li> <li>Dry Heat <ol> <li>Sugar first melts/then caramelises/finally burns.</li> <li>Sugar contributes to the golden brown colour of baked items/caramelisation.</li> <li>Dry heat forms a golden brown crust.</li> </ol> </li> <li>Moist Heat <ol> <li>When heated sugar dissolves in liquid.</li> <li>Prolonged heating of sugar results in syrup.</li> <li>Sugar syrup will caramelise/burn.</li> </ol> </li> </ul>		

Qu	estic	on	Expected Answer/s	Max Mark	Additional Guidance
2	а		<ul> <li>3 x 1 mark for identification of each stage.</li> <li>3 x 1 mark for each explanation linked to the development of the new soup.</li> <li>The stage must be identified before mark can be awarded for explanation. Where the stage is incorporated in the explanation this can be credited.</li> </ul>	6KU	
		1	<ul> <li>Stage - Concept Generation Explanation <ol> <li>This is when the company will develop ideas for the new soup.</li> <li>This is the thinking stage/thinking up new ideas for the new soup.</li> <li>The development of ideas from market research, for a new soup.</li> <li>Disassembly (of a popular existing soup) can establish why certain characteristics are popular/help manufacturer generate new ideas for the new soup</li> <li>The new soup has to be different to existing products so this ensures the manufacturer does not replicate existing soups.</li> <li>The cost/portions size/methods of cooking/ reheating/flavour/texture/ appearance of the new soup can be considered. </li> <li>Stage - Concept screening Explanation <ol> <li>All ideas for the new soup are considered – some are kept and some are discarded.</li> <li>A specification is compiled for a new soup.</li> </ol> </li> </ol></li></ul>		
		3	<ol> <li>The specification allows the manufacturer to discard ideas that do not meet the specification for a new soup.</li> <li>Stage – Prototype production         Explanation         The prototype/example/sample new soup is developed.         The prototype/example/sample new soup is measured against the specification.         The prototype/example/sample new soup is tested for appeal and may be further modified/rejected.         It enables testing to be carried out to avoid costly mistakes before the production run of the new soup.         The production run for the new soup is tested so the processes can be checked.     </li> </ol>		

Qu	esti	on	Expected Answer/s	Max Mark	Additional Guidance
2	а		(cont)		
		4	<ul> <li>Stage - Product testing Explanation</li> <li>1. A range of new soups are tested by the target market/various age groups/tasting panels so options can be obtained.</li> <li>2. Sensory testing of the new soup allows for changes to be made/improvements/ modifications of the recipe as a result of consumer opinion.</li> <li>3. A prototype of the new soup is trialled.</li> </ul>		
		5	<ul> <li>Stage – Information and advertising materials designed for packaging</li> <li>Explanation <ol> <li>Food labels in compliance with food labelling regulations will be designed for the new soup.</li> </ol> </li> <li>Suitable packaging will be developed/ investigated/priced and produced for the new soup.</li> <li>The legal and advertising team will begin to develop materials/plan for selling the new soup.</li> <li>Allows the advertising team to cost the advertising programme and the packaging of the new soup.</li> </ul> Stage – First production run Explanation <ol> <li>The new soup will be produced in bulk in a</li> </ol>		
		7	<ul> <li>factory/system and can be assessed.</li> <li>Quality assurance will be carried out to ensure the new soup is an acceptable standard for sale.</li> <li>This is an important stage in the manufacture of the new soup as it affects other stages.</li> <li>If ingredients need to be changed then the label of the new soup will need changed.</li> <li>Stage – Marketing plan Explanation</li> <li>The marketing team will meet to decide about the pricing of the new soup (low cost to indicate value product/high cost to indicate luxury product).</li> <li>An advertising plan is created to help launch the new soup.</li> <li>The marketing team meet to decide a range of ways to promote the new soup.</li> </ul>		

Qu	esti	on	E	xpected Answer/s	Max Mark	Additional Guidance
2	а	8	<ol> <li>Depending on how they choose</li> <li>Piloting of the</li> </ol>	<b>Ip</b> is now on sale. In the budget available will affect pose to launch the <b>new soup</b> . In <b>new soup</b> may be carried out to ccess of the product/ monitor initial	Mark	
2	b		<ol> <li>Food exhibiting be selected a launch the net launch t</li></ol>	ons/store launch/press release may as the most suitable method to <b>ew soup</b> . omotional techniques may be used be sale of the <b>new soup</b> . rch will be carried out to check the of the <b>new soup</b> . <b>ich</b> valid point linked to the <b>soup</b> for the <b>elderly</b>	5EV	
			Opinion Fact Consequence	positive/negative showing understanding of the rating from the profile indicating high/low – not just the number of the rating to the needs of the elderly		
		1	Colour (2 low)			
		Ρ	good for the eld	low score for colour which may be erly as it may show that it has no gs in it <b>therefore</b> reducing the risk ons.		
		N N	suggest it has appeal to the to foods with 2. The colour of this may not	cored low for the <b>soup</b> , (this may s a poor colour) <b>which may not</b> e <b>elderly as</b> they may be attracted brighter colours. The <b>soup</b> scored low for colour <b>appeal</b> to the <b>elderly</b> as they may ght <b>so</b> not be attracted to the soup.		

Qu	esti	on	Expected Answer/s	Max Mark	Additional Guidance
2	b		(cont)		
		2	Aroma (4 high)		
		P	<ol> <li>Positive</li> <li>The soup has a high score for aroma (which may suggest it has a strong smell) which may be good for the elderly as they may like/find appealing the smell of the ingredients/be encouraged to try it.</li> <li>The soup has a high score for aroma which may be good for the elderly as they may have poor sense of smell so this would ensure they.</li> </ol>		
		N	<ul> <li>poor sense of smell so this would ensure they could smell it/ encourage them to try it.</li> <li>Negative</li> <li>1. As the soup has a high score for aroma this may be bad as if the elderly person does not like the smell they may choose not to eat it.</li> </ul>		
		3	Saltiness (2 low)		
		Ρ	<ul> <li>Positive</li> <li>1. The soup has a low score for saltiness which is suitable for the elderly person as it will reduce</li> </ul>		
		Ρ	<ul> <li>their risk of hypertension/stroke/CHD.</li> <li>2. The soup has a low score for saltiness which is good for the elderly as it will help them to meet the current dietary target for salt.</li> </ul>		
		Ρ	<ol> <li>The low score for saltiness will make the soup suitable for the elderly as too much salt can remove calcium for the bones therefore this reduces their risk of osteoporosis/osteomalacia.</li> </ol>		
		Ν	<ul> <li>Negative</li> <li>1. The low score for saltiness may make the soup unappealing for the elderly as they may enjoy highly seasoned/ flavoured foods, therefore they may not want to eat the soup.</li> </ul>		

Qu	Question		Expected Answer/s	Max Mark	Additional Guidance
2	b		(cont)		
		4	Thickness (4 high)		
		Ρ	<ul> <li>Positive</li> <li>1. The soup has a high score for thickness which may make it suitable for the elderly as they may have poor co-ordination so may find eating liquids difficult so this will allow them to enjoy the soup without making a mess/eat soup more</li> </ul>		
		Ρ	<ul> <li>easily.</li> <li>2. The soup has a high score for thickness which may indicate the food is filling for the elderly person which is good as it will help prevent snacking therefore reducing the risk of CHD/obesity.</li> </ul>		
		N	<ul> <li>Negative</li> <li>1. The high score for thickness may make the soup unsuitable as it may indicate the soup has lumps, which is bad as it may cause the elderly person to choke/have difficulty swallowing.</li> </ul>		
		5	Smoothness (1 very low)		
		Ρ	<ul> <li>Positive</li> <li>1. The soup has a very low score for smoothness (indicating that there may be lumps/vegetable pieces) which may appeal to the elderly as they may like the texture of vegetable pieces in</li> </ul>		
		Ρ	<ul> <li>their soup.</li> <li>The very low score for smoothness in the soup this will be good for the elderly as it may contain NSP which could help reduce the elderly</li> </ul>		
		Ρ	<ul> <li>persons risk of constipation/bowel disorders</li> <li>3. As the <b>soup</b> has a very low score for smoothness this indicates that the soup may contain vegetables, this is <b>good</b> for the <b>elderly</b> person <b>as</b> it will help them to meet the current dietary targets for increasing fruit and vegetables.</li> </ul>		
		Ν	<ul> <li>Negative</li> <li>1. The soup has a very low score for smoothness which may make it unappealing for the elderly as they may not like the texture of pieces in their soup.</li> </ul>		
		Ν	<ol> <li>The soup has a very low score for smoothness which means it is likely to be lumpy/thick which may be unappealing to the elderly as they may find it difficult to swallow.</li> </ol>		

Qu	esti	on	Expected Answer/s	Max Mark	Additional Guidance
2	b	6	(cont) Spiciness (5 very high) Positive		
		Ρ	<ol> <li>The soup has a very high score for spiciness which may appeal/be good for/to the elderly as they may enjoy highly flavoured foods.</li> </ol>		
		N	<ol> <li>Negative</li> <li>The soup has a very high score for spiciness (indicating strong flavours) this may be bad/ unsuitable for the elderly as it may cause upset stomachs if they are not used to highly flavoured foods.</li> </ol>		
		Ν	<ol> <li>The soup has a very high score for spiciness which may be bad for the elderly person as they may not like spicy foods.</li> </ol>		
2	С		3 x 1 mark for <b>each</b> correct explanation of the role of the EHD linked to food safety. (Accept answers where candidate uses Environmental Health Officer (EHO))	3KU	
			<ol> <li>Environmental Health Departments (EHD) enforces the Food Safety Act (1990)/instigate legal proceedings by making reports to the Procurator Fiscal so ensure food safety.</li> <li>Environmental Health Departments (EHD) will regularly inspect food manufacturers/retailers/ catering outlets without warning to ensure food produced is safe to eat.</li> <li>Environmental Health Departments (EHD) can enter food premises without warning/carry out food safety duties to ensure food is free from harmful bacteria/contaminants/ ensuring food safety.</li> <li>Environmental Health Departments (EHD) can take samples of food for testing so ensuring food safety.</li> <li>Environmental Health Departments (EHD) can take samples of food for testing so ensuring food safety.</li> <li>Environmental Health Departments (EHD) can detain/seize food to test for contamination so ensuring food safety.</li> </ol>		

Qu	Question		Expected Answer/s	Max Mark	Additional Guidance
Qu 2	c	on	<ul> <li>(cont)</li> <li>Environmental Health Departments (EHD) can issue improvement notices/ hygiene improvement notices to food businesses which will state the offence/ improvement needed to ensure the food is safe to eat ensuring food safety.</li> <li>Environmental Health Departments (EHD) will provide inspection reports after each visit which will improve food safety as food premises will be assured they are meeting/know how to improve any issues related to food safety.</li> <li>Environmental Health Departments (EHD) can serve emergency prohibition notices/ voluntary closure agreements which will immediately close a food premises/ban the use of a particular piece of equipment/process which may make the food unsafe/cause an imminent risk to health therefore ensuring food safety.</li> <li>Environmental Health Departments (EHD) work closely with local communities/schools to provide education/heighten awareness/provide guidance/advice of food safety which will ensure food safety.</li> <li>Environmental Health Departments (EHD) work closely with local communities/schools to provide education/heighten awareness/provide guidance/advice of food safety which will ensure food safety.</li> </ul>		Additional Guidance
			<ul> <li>the public and act upon any offences food manufacturers/ retailers/catering outlets may have made so ensuring food safety.</li> <li>11. Environmental Health Departments (EHD) will inspect 'high risk' food premises (such as butchers' shops) more frequently to reduce the risk of food poisoning/ improve food safety.</li> </ul>		

Qu	Question		Expected Answer/s	Max Mark	Additional Guidance
2	d		<ol> <li>mark for each point of evaluation of cook chill linked to the consumer.</li> <li>mark for each point of evaluation of ultra heat treated (UHT) linked to the consumer.</li> <li>Minimum of 1 mark for each area</li> </ol>	4EV	
			Factabout the technological developmentOpinionpositive/negativeConsequenceof the fact for the consumer		
		i	Cook chill		
		Р	<b>Positive</b> 1. A large number of <b>cook chill</b> products are		
		ſ	available to the <b>consumer</b> which is good <b>as</b> it will increase consumer choice of food.		
		Ρ	<ol> <li>(As manufacturers are responding to our need to follow a healthy diet) many cook chill products now contain less fat/sugar/salt/more fruit and vegetables/NSP which is good as it will help consumers to follow a healthy diet.</li> </ol>		
		Ρ	3. There are now a wide variety of vegetarian <b>cook chill</b> products available which benefits the <b>consumer as</b> it increases their choice of food.		
		Ρ	4. Cook chill products are usually easy to prepare/take minimum preparation time which is good as consumers with a busy lifestyle/work may be encouraged to purchase them as they will save them time.		
		Ρ	<ol> <li>Many cook chill products can be microwavable this is good as it may appeal to consumers who have a busy lifestyle/work long hours as they will take less time to cook.</li> </ol>		
		Ρ	<ol> <li>Some cook chill products are microwavable and therefore require less energy to cook so may appeal to consumers as it will reduce fuel costs and save them money.</li> </ol>		
		Ρ	<ol> <li>Many cook chill products can be cooked in their original packaging which may save washing up and equipment needed so appeal to the consumer as it will save them time.</li> </ol>		
		Ρ	<ol> <li>Cook chill products use high quality ingredients food produced by this process must be in optimum condition this is good for the consumer as buying a high quality end product.</li> </ol>		

Qu	esti	on	Expected Answer/s	Max Mark	Additional Guidance
2	d	i	(cont)		
		Ρ	9. <b>Cook chill</b> products use high quality ingredients which is good as there is less need to use additives <b>therefore</b> the <b>consumer</b> may think they are getting a healthier product/ <b>so</b> the <b>consumer</b> is less likely to suffer from allergic reactions.		
		P	<ol> <li>Many cook chill products are produced as single portions which is good for consumers who live on their own as it may be more cost effective than producing the meals from scratch.</li> </ol>		
		P	<ol> <li>Most cook chill products can be frozen on the day of purchase which will benefit the consumer as it will save them time with repeated trips to the shops.</li> </ol>		
		P	12. <b>Cook chill</b> products are cooked quickly and then chilled to just above freezing so will benefit the <b>consumer as</b> there will be less loss of nutrients/they will have a longer shelf life.		
		P P	<ul> <li>13. Cook chill products can have a longer shelf life which will benefit the consumer as there is less need to shop so frequently.</li> <li>14. Cook chilling does not affect the food quality/</li> </ul>		
		Ρ	colour/flavour/texture/nutritional value which is good as this may make the foods more appealing to <b>consumers</b> . 15. <b>Cook chill</b> products are produced in strict		
		Ρ	<ul> <li>hygienic conditions which will benefit the consumer as it will reduce their risk of food poisoning.</li> <li>16. It is not as expensive to produce cook chilled products as it is to produce frozen foods so will</li> </ul>		
			be good for the <b>consumer</b> as it may save them money.		
		Ν	<ol> <li>Negative</li> <li>Many cook chill products do not meet current dietary advice/are high in fat/ sugar/salt/low in NSP so may be unsuitable for consumers concerned about following a healthy diet.</li> </ol>		
		Ν	<ol> <li>Cook chill products only require to be reheated, however if food is not cooked for the correct length of time this may be bad for the consumer as it could lead to food poisoning.</li> </ol>		
		Ν	<ol> <li>If cooking instructions for cook chill products are not followed carefully this could lead to the food being overcooked which could be bad for the consumer as their meal may be inedible.</li> </ol>		

Qu	Question		Expected Answer/s		Additional Guidance
2	d	i	(cont)		
		N	<ul> <li>Negative</li> <li>4. Cook chill products have a shorter life than frozen foods (so would be unsuitable for bulk buying), this could be a problem for consumers who lead a busy lifestyle/work schedule as it may mean more frequent trips to the shops/not suitable for bulk buying.</li> <li>5. Cook chill products must be refrigerated (to prevent bacterial growth) this may cause consumers a problem as they may not have access to a fridge so could lead to food</li> </ul>		
		N	<ul> <li>poisoning.</li> <li>Cook chilled products require a lot of packaging which may not be good for some consumers (who may find this unacceptable) as they are concerned about the impact on the environment.</li> </ul>		
		N	<ol> <li>If consumers are preparing cook chilled products for a family/large group it will be more expensive than cooking from raw ingredients so may make it unsuitable for people who have a limited budget.</li> </ol>		

Qu	Question		Expected Answer/s		Additional Guidance
2	d	ii	Ultra Heat Treated (UHT)		
		Ρ	<ol> <li>Positive</li> <li>Ultra heat treated foods have a long shelf life so can benefit the consumer as it saves them time on repeated journeys to the shops.</li> </ol>		
		Ρ	<ol> <li>Ultra heat treated foods are often cheaper than fresh foods so will benefit consumers on a budget/low income groups/save consumers money.</li> </ol>		
		Ρ	3. As <b>ultra heat treated</b> foods can be stored at room temperature until opened/do not need specialist storage, this can benefit the <b>consumer as</b> it will save them space in the fridge/freezer until needed/more convenient.		
		Ρ	<ol> <li>Ultra heat treated products are sterile/ contain no bacteria this is good as it makes food safer to eat for the consumer.</li> </ol>		
		Ρ	<ol> <li>Ultra heat treated foods can be purchased in bulk so can benefit the consumer as it saves repeated trips to the shops/may be useful in bad weather/ emergencies.</li> </ol>		
		Ρ	<ol> <li>Ultra heat treatment kills bacteria so can benefit the consumer as it makes the food safer/less likely to cause food poisoning.</li> </ol>		
		Ρ	<ol> <li>Ultra heat treated products include individual milk cartons which can be used in hotel rooms without specialist storage so benefiting the consumer as it provides a convenient product.</li> </ol>		
		N	<ol> <li>Negative</li> <li>Ultra heat treated products are limited as the process is only suitable for a small number of products this is bad for consumers as it reduces the process of the product the process of the product of the product</li></ol>		
		Ν	<ul> <li>reduces the range available to them.</li> <li>The high temperatures used in producing ultra heat treated products can lead to changes in the natural flavour of food this may be bad for the consumers as they may find the taste unacceptable.</li> </ul>		
		Ν	<ol> <li>Once ultra heat treated food is opened it must be stored/used as a fresh product this may be bad for some consumers who only need a small quantity as this could result in waste.</li> </ol>		
		Ν	<ol> <li>Due to the high temperatures used in ultra heat treated products some vitamins are destroyed which is bad as the full nutritional benefit of the product will not be passed to the consumer.</li> </ol>		

Qu	estic	n Expected Answer/s	Max Mark	Additional Guidance
Qu 2	e	<ul> <li><b>Expected Answer/s</b></li> <li>2 x 1 mark for each explanation of European labelling directives linked to benefits to the <b>consumer</b>.</li> <li>All food must be clearly marked with its n description so the <b>consumer</b> knows exace what they are buying.</li> <li>Most pre-packaged foods must show a list ingredients in descending order of weigh <b>consumer</b> can check for any foods they need to avoid.</li> <li>All additives (except flavourings) must be and identified by their E number and add type in the ingredients list so the <b>consume</b> avoid any which they are sensitive to.</li> <li>The EU place restrictions on which additia allowed to be used so the <b>consumer</b> car assured they are safe to eat.</li> <li>Food packages must be sold in metric was so the <b>consumer</b> can compare food prote easier to get the best value for their mone</li> <li>Pre-packaged foods must carry a date of durability eg "best before" so the <b>consume</b> know when the food is of the best quality</li> <li>Highly perishable foods must carry a "use date so the <b>consumer</b> will know when the is safe to eat/reducing the risk of food po</li> <li>Nutritional labelling (which is optional) must follow a standard format so the <b>consume</b> it easier to compare like for like products.</li> <li>Food manufacturers must list (12) potent allergic ingredients (eg nuts/gluten) so th</li> </ul>	Mark Mark Mark Mark Mark Mark	Additional Guidance
		<ul> <li>allergic ingredients (eg nuts/gluten) so th consumer can avoid any foods which ma cause them harm.</li> <li>10. Sets out details with regard to products w have a low energy/reduced energy claim consumer will know the claims being ma factual.</li> <li>11. Pre-packed foods should have the 'e' ma indicate the average weight system so th consumer knows they are getting the co weight.</li> </ul>	ay /hich so the ade are rk to e	

Qu	Question		Expected Answer/s		Additional Guidance
3	а		3 x 1 for identification of <b>each</b> reason for <b>increase</b> <b>in food poisoning</b> 3 x 1 mark for <b>each</b> explanation linked to the reason for increase in food poisoning. Reason must be identified before mark can be awarded. If reason is identified within the explanation for increase in food poisoning mark can be awarded.	6KU	
		1	<ul> <li>Reason - Intensive farming Explanation</li> <li>1. More intensive methods of food production/large numbers of animals farmed (in a small space) increase the risk of contamination/animals may have large numbers of bacteria which may lead to food poisoning.</li> </ul>		
		2	<ul> <li>Reason – Food Production</li> <li>Explanation</li> <li>1. Increased length of the food production chain/importing food from abroad may allow bacteria to form/contaminate food as more people/processes are involved in treating/ transporting/storing food which may increases food poisoning.</li> </ul>		

Qu	Question		Expected Answer/s		Additional Guidance
3	a	3	<ul> <li>(cont)</li> <li>Reason - Eating outside the home/ barbeque</li> <li>Explanation</li> <li>1. There is an increased risk of infected food handlers/food handlers with poor hygiene habits preparing food which may contaminate food (with bacteria) and so increasing the risk of food poisoning.</li> <li>2. Potentially there are more people handling the food which increases the opportunity for contamination increasing the incidence of food poisoning.</li> <li>3. Less food is prepared/cooked in the home which means more people are handling the food so increasing the risk of food poisoning.</li> <li>4. Packed food lunches which are not chilled may give bacteria time to multiply and so increase the risk of food poisoning.</li> <li>5. Inadequate hand washing prior to consuming food at school/place of work can allow food to be contaminated and so increase the risk of food poisoning.</li> <li>6. There is an increased risk that food may not be cooked adequately which could increase the risk of food poisoning.</li> <li>7. Increase in barbequing food can mean that high-risk foods do not reach the core temperature (75°) in the centre/bacteria are not killed which increases the incidence of food poisoning.</li> </ul>		
		4	<ul> <li>Reason – Shopping for food Explanation</li> <li>1. If chilled/frozen food is not stored/ transported home in a cool box/chilled conditions bacteria may multiply and so increase the risk of food poisoning.</li> <li>2. If the use by date is short when purchasing perishable foods a high number of bacteria may be allowed to develop which may increase the risk of food poisoning.</li> </ul>		

Qu	esti	on	Expected Answer/s	Max Mark	Additional Guidance
3	а		(cont)		
		5	<ul> <li>Reason – Range of food retail outlets</li> <li>Explanation</li> <li>1. Food at outdoor markets/stalls which is not covered could become contaminated with bacteria which may increase the risk of food poisoning.</li> <li>2. People buy ready to eat food from supermarkets/ takeaways/restaurants this may involve more people in the food chain so opportunity for contamination can increase resulting in a higher risk of food poisoning.</li> <li>3. An increase in food retail outlets results in more outlets for EHO to check which may increase the risk of food poisoning.</li> </ul>		
		6	<ul> <li>Reason - Food preparation within the home Explanation <ol> <li>Inadequate cooking/microwave/reheating of food means that bacteria are not killed increasing the incidence of food poisoning.</li> <li>Inadequate cooling of food so bacteria have more time to multiply which may increase the risk of food poisoning.</li> <li>Poor literacy/numeracy skills may mean that the person preparing the food cannot follow the cooking instructions given on packets/in recipe books and so under cook the food which may increase the risk of food poisoning.</li> <li>Inadequate thawing of poultry means food may not be thoroughly cooked so bacteria are not killed and so increase the risk of food poisoning.</li> <li>Infected food handlers/those with poor hygiene habits increase the incidence of food poisoning by transferring bacteria to food.</li> <li>Uncovered food could be contaminated by animals/flies and if this is then consumed it may lead to food poisoning.</li> <li>Students/people (setting up home for the first time) may have no knowledge about how to handle/store/prepare food and so bacteria have the opportunity to multiply increasing the risk of food poisoning.</li> <li>Inadequate hand washing prior to consuming/ preparing food at home can allow food to be contaminated and so increase the risk of food poisoning.</li> </ol></li></ul>		

Qu	Question		Expected Answer/s		Additional Guidance
3	а	_	(cont)		
		7	<ul> <li>Reason – Lack of knowledge</li> <li>Explanation</li> <li>1. Unsure of appropriate reheating temperatures to ensure that all bacteria are destroyed may lead to an increase in the number of cases of food poisoning.</li> <li>2. Leading to incorrect storage in fridge/ possible cross contamination between raw and cooked food increasing risk of food poisoning.</li> <li>3. Leading to cross contamination of raw food to cooked food may mean that bacteria are present on the cooked food which can lead to food poisoning.</li> <li>4. Damaged utensils/cracks in crockery can harbour bacteria which when used to prepare food could lead to food poisoning.</li> </ul>		
		8	<ul> <li>Reason – Advanced preparation</li> <li>Explanation</li> <li>1. Meals which are served for celebrations/ anniversaries can be a risk as preparation is sometimes carried out too far in advance/the food may be stored in the danger zone (5° - 63°C)/allowing bacteria to multiply to high levels so increase the incidence of food poisoning.</li> </ul>		
		9	<ul> <li>Reason – Standard of living/Money available Explanation</li> <li>Purchase of meat/dairy products increases; these foods are the main carriers of food poisoning bacteria.</li> <li>Potentially increase in purchase of take away meals/eating in restaurants so if food safety/ food hygiene guidelines are not followed this may increase the risk of food poisoning.</li> <li>Food is kept for longer if money is limited giving an opportunity for bacteria to breed and so increase the risk of food poisoning.</li> <li>When consumers travel abroad on holiday they may be exposed to poor hygienic practices/ bacteria and suffer from food poisoning.</li> </ul>		

Qı	Question		E	xpected Answer/s	Max Mark	Additional Guidance
3	а		(cont)			
		10	Explanation 1. People are m poisoning/see cases so it ap	ore aware of the symptoms of food ek medical assistance/report more opears as if the number of cases of ing has increased.		
3	b		4 x 1mark for <b>eac</b> nutritional needs	<b>ch</b> point of evaluation linked to the of a <b>vegetarian</b> .	4EV	
			Fact Opinion	nutrient identified or function of nutrient positive/negative		
			Consequence	of the nutrient function/ benefit to health for the vegetarian		
		1	Broccoli soup			
		Ρ	to a <b>vegetari</b> formation of r	nin the broccoli soup is beneficial <b>an as</b> it is required for the ed blood cells/this could help		
		Ρ	be good for the to absorb the	will contain vitamin C which may ne <b>vegetarian as</b> it may help them maximum amount of iron from		
		Р	beneficial to a be low from r	o will contain iron which will be a <b>vegetarian</b> ( <b>as</b> their intake may not eating red meat) <b>so</b> ensuring fer from anaemia.		
		Ρ	4. Vitamin A cor	ntained in the broccoli soup may be regetarian as it is important for		
		Ρ	5. Vitamin B2 co be good for th	ontained in the broccoli soup may ne <b>vegetarian as</b> it helps release protein/ carbohydrates/fats.		
		Ρ	<ol> <li>Antioxidant vi broccoli soup as they will here</li> </ol>	tamins/ACE contained in the may be good for the <b>vegetarian</b> elp maintain immune the the risk of CHD/cancer.		
		Ρ	7. NSP found in to the <b>vegeta</b>	the broccoli soup will be beneficial <b>rian as</b> it will help remove waste so preventing constipation.		

Qu	esti	on	Expected Answer/s	Max Mark	Additional Guidance
3	b		(cont)		
		Ρ	8. NSP found in the broccoli soup will be beneficial to the <b>vegetarian as</b> it can provide a feeling of fullness so preventing snacking on high fat/		
		Ρ	<ul> <li>sugary foods/preventing weight gain.</li> <li>The broccoli soup may contain calcium which will be beneficial to a vegetarian (as their intake may be low if they are a vegan/do not consume dairy products) so they don't suffer from</li> </ul>		
		Ρ	osteoporosis/osteomalacia/rickets. 10. The broccoli soup may be low in fat/ saturated fat which will be beneficial to a <b>vegetarian</b> ( <b>as</b> there is no increase in cholesterol) <b>so</b> this may prevent narrowing of the arteries/preventing coronary heart disease in later life /preventing obesity.		
		N	Negative		
		IN	<ol> <li>The NSP/dietary fibre found in broccoli soup may not be beneficial to a vegetarian as the NSP/dietary fibre may bind with iron limiting the absorption/ making it unavailable so possibly contributing to anaemia.</li> </ol>		
		Ν	<ol> <li>The broccoli soup contains calcium and NSP/dietary fibre which may be a disadvantage to the vegetarian as the NSP/dietary fibre may bind with the calcium therefore making it unavailable so possibly contributing to rickets/ osteoporosis/osteomalacia.</li> </ol>		
		Ν	<ol> <li>The broccoli soup may be seasoned with salt which may be bad for the vegetarian as this may contribute to high blood pressure/coronary heart disease in later life.</li> </ol>		
		N	<ol> <li>The broccoli soup may have been cooked at a high temperature for a long time this is not good as Vitamin C is destroyed at fairly low temperatures therefore would not be available to the vegetarian to aid the absorption of iron.</li> </ol>		

Qu	Question		Expected Answer/s	Max Mark	Additional Guidance
3	b		(cont)		
		2	Lentil Curry		
			Positive		
		Ρ	<ol> <li>Lentils are a good source of protein which will be beneficial to a vegetarian as it may supply</li> </ol>		
		Ρ	<ul> <li>an alternative protein source/non meat.</li> <li>Lentils will contain protein which is good for the vegetarian as this will allow them to grow/repair</li> </ul>		
		Ρ	<ul> <li>damaged tissue.</li> <li>3. Lentil curry will contain iron which will be beneficial to a vegetarian (as their intake may be low from not extinct and most) on experiment.</li> </ul>		
		Р	<ul> <li>be low from not eating red meat) so ensuring they don't suffer from anaemia.</li> <li>4. Folic acid within the lentils is beneficial to a vegetarian as it is required for the formation of</li> </ul>		
		Р	red blood cells, (iron levels may be low) <b>so</b> this could help prevent anaemia. 5. Vitamin B contained in the Lentil curry may be		
		P	<ul> <li>good for the vegetarian as it helps release energy from protein/ carbohydrates/fats.</li> <li>6. The lentil curry may contain calcium which will</li> </ul>		
			be beneficial to a <b>vegetarian (as</b> their intake may be low if they are a vegan/do not consume dairy products) <b>so</b> they don't suffer from osteoporosis/osteomalacia/rickets.		
		Ρ	<ol> <li>Phosphorus found in the lentil curry will be beneficial to a vegetarian (as their intake may be low if they are a vegan/do not consume dairy products) so this could help in the formation/</li> </ol>		
		Ρ	<ul> <li>development/ maintenance of bones/teeth.</li> <li>8. Phosphorus found in the lentil curry will be beneficial to a vegetarian (as their intake may be low if they are a vegan/do not consume dairy products) so this could help with the production/</li> </ul>		
		Ρ	<ul> <li>release of energy from cells.</li> <li>9. NSP found in the lentil curry will be beneficial to the vegetarian as it will help remove waste from the body so preventing constinuation.</li> </ul>		
		Ρ	<ul> <li>the body so preventing constipation.</li> <li>10. The Lentil curry may be low in fat/ saturated fat which will be beneficial to a vegetarian (as there is no increase in cholesterol) is so this may prevent narrowing of the arteries/preventing coronary heart disease in later life/preventing obesity.</li> </ul>		
		Ρ	<ol> <li>The curry seasoning in the lentil curry may mean it is low in salt which is beneficial to a vegetarian as there will be a reduce risk of hypertension/high blood pressure.</li> </ol>		

Qu	Question		Expected Answer/s	Max Mark	Additional Guidance
3	b		(cont)		
		Ν	<ul> <li>Negative</li> <li>1. The NSP/dietary fibre found in the Lentil curry may not be beneficial to a vegetarian as the NSP/dietary fibre may bind with iron limiting the absorption/ making it unavailable so possibly</li> </ul>		
		Ν	<ul> <li>2. The Lentil curry contain calcium and NSP/ dietary fibre which may be a disadvantage to the vegetarian as the NSP/dietary fibre may bind with the calcium therefore making it unavailable</li> </ul>		
		N	<ul> <li>and so possibly contributing to rickets/ osteoporosis/osteomalacia.</li> <li>3. The Lentil curry may be seasoned with salt which may be bad for the vegetarian as this may contribute to high blood pressure/coronary heart disease in later life.</li> </ul>		
		3	Lemon Cheesecake		
		Ρ	<ul> <li>Positive</li> <li>1. The lemon cheesecake will provide carbohydrate which will be good for a</li> </ul>		
		Ρ	<ul> <li>vegetarian as it will provide them with energy to carry out daily activities.</li> <li>2. The lemon cheese cake will give the vegetarian a source of high biological value protein which is good (as the vegetarian may be lacking</li> </ul>		
		Ρ	<ul> <li>protein) so allowing them to grow/repair correctly.</li> <li>3. The lemon cheesecake will contain calcium which will be beneficial to a vegetarian so ensuring they don't suffer from osteoporosis/</li> </ul>		
		Ρ	<ul> <li>osteomalacia/rickets.</li> <li>Phosphorus found in the lemon cheesecake will be beneficial to a vegetarian as this could help in the formation/development/maintenance of bones/teeth.</li> </ul>		
		Ρ	<ol> <li>Phosphorus found in the lemon cheesecake will be beneficial to a vegetarian as this could help with the production/release of energy from cells.</li> </ol>		
		Ρ	<ol> <li>Vitamin B12 contained in the lemon cheesecake will be beneficial to a vegetarian (as it may be lacking in the diet from not eating meat) therefore helping to prevent anaemia.</li> </ol>		

Qu	Question		Expected Answer/s	Max Mark	Additional Guidance
3	b		(cont)		
		Ρ	<ol> <li>Vitamin A contained in the lemon cheesecake may be good for the vegetarian as it is important for eyesight/antioxidant.</li> </ol>		
		Ρ	<ol> <li>Vitamin D contained in the lemon cheesecake is beneficial to the vegetarian as it helps absorb calcium so preventing osteoporosis.</li> </ol>		
		Ρ	<ol> <li>Lemon cheesecake will contain vitamin C which may be good for the vegetarian as it may help them to absorb the maximum amount of iron from food preventing anaemia.</li> </ol>		
		Ρ	<ol> <li>Antioxidant vitamins/ACE contained in the lemon cheesecake may be good for the vegetarian as they will help maintain immune system/reduce the risk of CHD/Cancer.</li> </ol>		
		Ρ	<ol> <li>The lemon cheesecake will contain fat which is beneficial to the vegetarian as it will provide a source of fat soluble vitamins A D E K.</li> </ol>		
			Negative		
		Ν	<ol> <li>The lemon cheesecake may contain saturated fat which may not be good for the vegetarian as a high intake of saturated fat may contribute to obesity/ coronary heart disease.</li> </ol>		
		Ν	<ol> <li>One of the main ingredients in the lemon cheesecake is cheese which may not be suitable for all vegetarians as if they are vegan they will not eat products of animals/so will lack protein.</li> </ol>		
		Ν	<ol> <li>The lemon cheesecake may be high in energy which may be bad for the vegetarian particularly if not active as this could lead to weight gain.</li> </ol>		

Qu	Question		Expected Answer/s		Additional Guidance
3	C	i	<ul> <li>4 x 1 mark for each explanation of the benefit of food additives linked to the consumer. Minimum of 1 mark should come from each area.</li> <li>Colourings <ol> <li>During processing of food the natural colour is often lost so the use of food colouring helps to improve the appearance/making it more attractive to the consumer.</li> <li>Food colourings can enhance the colour of certain foods making them more attractive to the consumer.</li> <li>Food colourings can be used to ensure colour is maintained during storage of products so that consumer gets the expected colour.</li> <li>The consumer often prefers uniformity of colour in products so food colourings are sometimes added to mask variations in colour in a product.</li> <li>Consumers can have increase choice as food colourings can be added to give a novelty product eg green tomato sauce.</li> </ol> </li> </ul>	Max Mark 4KU	
			<ol> <li>Some manufacturers have removed artificial colourings from children's products so that consumers can buy safe in the knowledge that children won't have allergic reaction/become hyperactive.</li> </ol>		

Qu	Question		Expected Answer/s	Max Mark	Additional Guidance
3	с		(cont)		
		ii	Preservatives		
			<ol> <li>The addition of preservatives benefits the consumer by helping to keep food safer longer protecting it from micro-organisms.</li> <li>The consumer is less likely to waste food as preservatives can lengthen the shelf life of food products/allowing for longer storage.</li> <li>The use of preservatives allows for a greater variety of food products giving the consumer more choice.</li> <li>The use of preservatives allows for a greater variety of ready prepared/ convenience products this is a benefit as time will be saved preparing foods by the busy consumer.</li> <li>Preservatives enable manufacturers to transport food in bulk this is cheaper and so helps to keep the cost of food products down for the consumer.</li> <li>Preservatives allow for food to be bought/stored for longer periods of time this means the consumer will save time/money.</li> <li>Preservatives can be added to some fruits to prevent browning making them more appealing to the consumer.</li> <li>Sodium nitrite prevents bacterial growth (Clostridium botulinum) in cured/ processed meat products ensuring the food is safe for the consumer.</li> <li>Sugar/salt/vinegar are natural preservatives which can provide a variety of food products giving the consumer more choice.</li> </ol>		

Qu	esti	on	Expected Answer/s	Max Mark	Additional Guidance
3	d		4 x 1 mark for each point of evaluation linked to each factor influencing food choice.Facthow the factor influences food choiceOpinionpositive/negative	4EV	
			Consequence of the fact for the consumer		
		i	Cooking skills		
		Ρ	<ul> <li>Positive</li> <li>1. Some consumers have good cooking skills and are more likely to purchase individual ingredients/cook homemade dishes this is good as it gives them more variety in the diet/a</li> </ul>		
		Ρ	<ul> <li>healthier diet.</li> <li>Consumers with good cooking skills may choose to buy individual ingredients and prepare/cook them this is good because it can save them money/cook in bulk and freeze.</li> </ul>		
		Ρ	<ol> <li>Consumers with good cooking skills may want to make homemade foods as they know how to prepare all the individual ingredients this is good as they will not choose convenience/unhealthy/ expensive foods.</li> </ol>		
		Ρ	<ol> <li>A lack of consumer cooking skills has resulted in an increased range of exotic/luxury type foods this is good as the consumer has a greater variety to choose from.</li> </ol>		
		Ν	<ol> <li>Negative</li> <li>Consumers with limited cooking skills may eat more ready meals/take away meals this is bad as these may be high in fat/sugar/salt low in NSP.</li> </ol>		
		Ν	<ol> <li>Busy consumers may have less time to cook/prepare foods so they may purchase ready meals this is bad as it means that traditional cooking skills may be lost.</li> </ol>		
		Ν	3. <b>Cooking skills</b> involved in making home prepared food take time to carry out this is bad <b>as</b> it may conflict with leisure/work interests making consumers more likely to choose convenience foods.		

Qu	Question		Expected Answer/s	Max Mark	Additional Guidance
3	d	ii	Foreign Travel		
		Ρ	<ul> <li>Positive</li> <li>1. More consumers travel abroad on holiday/ business where they may try different foods which is good as it may increase food choice/ add variety when they go home.</li> </ul>		
		Ρ	<ol> <li>As a result of consumers travelling abroad they are more likely to choose foreign foods/ ingredients when they come home which is good because they can continue to enjoy these foods at home.</li> </ol>		
		Ρ	<ol> <li>Consumption of pasta/rice/noodles dishes has increased as a result of foreign travel which is good because it can help consumers who are concerned about meeting dietary targets.</li> </ol>		
		Ρ	<ol> <li>When travelling abroad many holidays now offer consumers the opportunity to learn how to cook traditional meals which is good because it can provide knowledge of foreign ingredients (which consumers may choose to buy).</li> </ol>		
		N	<ul> <li>Negative</li> <li>1. More consumers travel abroad on holiday/ business where they are exposed to a variety of new tastes this can be bad as it may encourage the consumption of unhealthy take away foods/</li> </ul>		
		Ν	<ul> <li>ready meals.</li> <li>It is illegal to bring foods from foreign countries into the United Kingdom so new foods that have been enjoyed through foreign travel may be difficult to source which is bad as consumers may not be able to reproduce similar dishes at home restricting food choice.</li> </ul>		
		Ν	<ol> <li>When travelling to foreign countries choice may be limited due to religion/ religious festivals which could be bad as it may restrict consumer choice of food.</li> </ol>		
		Ν	<ol> <li>'All-inclusive' meal options taken when travelling abroad may repeat menu options several times during consumers stay which is bad as it may restrict consumer choice of food.</li> </ol>		

Qı	Question		Expected Answer/s	Max Mark	Additional Guidance
3	d	iii	Environmental issues		
		Ρ	<ul> <li>Positive</li> <li>1. Consumers are more aware of the possible effect of chemicals in food this is good as there has been an increase in natural/organic/ unprocessed foods so giving greater food</li> </ul>		
		Ρ	<ul> <li>choice.</li> <li>2. There has been an increase awareness of animal related illness this is beneficial as it has led to consumers opting for vegetarian foods.</li> </ul>		
		Ρ	<ol> <li>Consumers have become more conscious of saving energy increasingly using microwave ovens this is beneficial as it has given greater choice of microwave foods/meals.</li> </ol>		
		Ρ	<ol> <li>Consumers have become more aware of the effects of packaging on the <b>environment</b> this is good <b>as</b> they may only choose foods which use less packaging/biodegradable material/ recyclable/refillable containers.</li> </ol>		
		Ρ	<ol> <li>Consumers have concern about how animals are bred/treated this is good as they may make food choices where animal care has been considered choosing cruelty free/free range/ dolphin friendly/farm assured.</li> </ol>		
		Ρ	<ol> <li>Consumers are more aware of the distance that food has been transported/ food miles so they may choose food from local/Scottish sources this is good as it will help to reduce (global) pollution/ energy/climate change.</li> </ol>		
		Ρ	<ol> <li>Consumers are more aware of the distance that food has been transported/ food miles this so they may choose only foods that are in season this is good as it will help to reduce (global) pollution/ energy/climate change.</li> </ol>		
		Ρ	<ol> <li>Consumers may wish to reduce their carbon foot print through buying/cooking the right amount of food this is good as will help to minimise food waste.</li> </ol>		
		Ρ	<ol> <li>Consumers are more aware of sustainable food/the process of food from field to plate this is good as they will choose local foods minimising energy used in transport/storage/ helping to contribute to local economy.</li> </ol>		
		Ρ	<ol> <li>Consumers are more aware of the process of food from field to plate and may choose fair trade foods this is good as buying foreign foods out of season will help sustain producers in poorer countries.</li> </ol>		

Qu	Question		Expected Answer/s	Max Mark	Additional Guidance
3	d	iii	(cont)		
		Ν	<ul> <li>Negative</li> <li>1. Consumers are more aware of the possible effect of chemicals in food as there has been an increase in natural/ organic/unprocessed this is bad as it may make food choice more</li> </ul>		
		Ν	<ul> <li>expensive.</li> <li>2. Consumers have become more conscious of saving energy increasingly using microwave ovens this is not good as it may encourage choice of unhealthy microwave foods/meals.</li> </ul>		
		Ν	<ol> <li>Consumers are more aware of the distance that food has been transported/ food miles this is bad as they may not choose fair trade foods so disadvantaging producers/economy in poorer countries.</li> </ol>		
		iv	Money Off Coupons		
		Ρ	<ul> <li>Positive</li> <li>1. Money-off coupons might be found on packaging/magazines/newspaper/ internet encouraging consumers to purchase these foods this is good as it will save them money/</li> </ul>		
		Ρ	<ul> <li>encourage choice of new foods</li> <li>2. Money-off coupons might be found on packaging/magazines/newspaper internet for healthy foods encouraging consumers to purchase these foods which is good as it may</li> </ul>		
		Ρ	<ul> <li>help prevent diet related diseases.</li> <li>On pack money off coupons may be on an initial food pack encouraging consumer to make a repeat purchase of food, this is good as it will save them money buying a food they know they like.</li> </ul>		
			Negative		
		Ν	<ol> <li>When money-off coupons end the consumer may be unwilling/unable to purchase food at normal/increased price this is bad as limits their food choice.</li> </ol>		
		Ν	<ol> <li>The consumer may feel embarrassment at using the money off coupon and opt not to choose the food product this is bad as they will not save any money.</li> </ol>		
		Ν	<ol> <li>Consumers may choose food they have a money off coupon for however the coupon may have a limited life span this is bad as they will not make the saving they thought.</li> </ol>		

Qu	Question		Expected Answer/s		Additional Guidance
3	e		2 x 1 mark for each explanation of the effect on gelatinisation	2KU	
		i	Starch		
			<ol> <li>High proportion of starch to liquid in the mixture will affect gelatinisation as the mixture will be thicker.</li> <li>The type of starch used affects gelatinisation as arrowroot gives a clear and transparent gel/flour gives a cloudy/creamy appearance/ flavour in food products.</li> <li>A larger starch granule will gelatinise a food product much quicker than a smaller granule.</li> </ol>		
		ii	Acids		
			<ol> <li>Acids such as lemon juice/tomato/vinegar cooked together with a starch and a liquid reduces the degree of <b>gelatinisation</b>/this could result in a runny sauce in a food product.</li> <li>Acid ingredient lemon juice/tomato/vinegar should be added after <b>gelatinisation</b> to prevent sauce becoming too runny/thickness of sauce being reduced.</li> </ol>		

Qu	Question		Expected Answer/s		Additional Guidance
4	а		5 x 1 mark for each point which evaluates school meals to a <b>different</b> dietary target	5EV	
			Fact factor relating to the contribution of school meals Opinion positive/negative		
			Consequence how it links to dietary target		
			Fruit and vegetables Average intake to double to 400g per day		
			Positive		
		Ρ	<ol> <li>Fresh fruit is available at all till points so can be purchased with all school meals which is good as it will help contribute to meeting the dietary target of average intake of fruit and</li> </ol>		
		Ρ	<ul> <li>vegetables to double to 400g per day.</li> <li>Prepared fruit salads are available as a dessert in school meals which benefits children as it will help them to achieve the target of average intake of fruit and vegetables to double to</li> </ul>		
		Ρ	<ul> <li>400g per day.</li> <li>Fruit smoothies can be purchased to consume with school meals which is good as these will help contribute to meeting the target of average</li> </ul>		
		Ρ	<ul> <li>intake of fruit and vegetables to double to 400g per day.</li> <li>4. School meals offer a selection of fresh fruit juices (minimum of 50% fruit juice) which is good as this will help contribute to the target of</li> </ul>		
		Р	<ul> <li>average intake of fruit and vegetables to double to 400g per day.</li> <li>5. A selection of vegetables are available to</li> </ul>		
		•	accompany school meals which is good because it helps contribute to meeting the target of average intake of fruit and vegetables to double to 400g per day.		
		Ρ	<ol> <li>Many of the sandwiches sold for school meals contain salad which is good as it will help achieve the target of average intake of fruit and vegetables to double to 400g per day.</li> </ol>		
		Ρ	<ol> <li>Fresh soups containing different vegetables are sold daily as part of the school meals which is good because this will help achieve the target of average intake of fruit and vegetables to</li> </ol>		
		Р	<ul><li>average make of null and vegetables to double to 400g per day.</li><li>8. School meals provide a variety of main meals</li></ul>		
			which contain vegetables which is good because this will help achieve the target of average intake of fruit and vegetables to double to 400g per day.		

Qu	Question		Expected Answer/s		Additional Guidance
4	a		(cont)		
		Ν	<ol> <li>Negative</li> <li>Children may not choose to eat vegetables with their school meal which is not good as they will not achieve the target of average intake of fruit and vegetables to double to 400g per day.</li> </ol>		
		Ν	<ol> <li>Children may choose not to purchase fruit with their school meal which is bad as they will not achieve the target of average intake of fruit and vegetables to double to 400g per day.</li> </ol>		
		Ν	<ol> <li>Fruit available with school meals may not be fresh so may not look appealing which is bad because children will not purchase it so will not meet the target of average intake of fruit and vegetables to double to 400g per day.</li> </ol>		
		Ν	<ol> <li>Vegetables to double to 400g per day.</li> <li>Vegetables which are to be sold with school meals may have dried out so will not look appealing to children this is bad as they will not achieve the target of average intake of fruit and vegetables to double to 400g per day.</li> </ol>		
		Ν	<ol> <li>Vegetables to double to 400g per day.</li> <li>Vegetables sold as part of school meals may be overcooked which is not good because children will not buy them so not contributing to the target average intake of fruit and vegetables to double to 400g per day.</li> </ol>		
			Bread Intake to increase by 45% from present daily intake to 106g (mainly by using wholemeal and brown breads)		
		Ρ	<ol> <li>Positive</li> <li>School meals offer a variety of breads/ rolls/ wraps every day which is good because the variety will help children increase their bread consumption by 45% from present daily intake to 106g (mainly by using wholemeal and brown breads).</li> </ol>		
		Ρ	<ol> <li>School meals offer fresh bread with soup which is good as it will help children to increase their bread consumption by 45% from present daily intake to 106g (mainly by using wholemeal and brown breads).</li> </ol>		
		Ρ	<ol> <li>School meals offer special promotions such as sandwich meal deals which is good as it will help children increase their bread consumption by 45% from present daily intake to 106g (mainly by using wholemeal and brown breads).</li> </ol>		

Qu	Question		Expected Answer/s	Max Mark	Additional Guidance
4	а	N	<ul> <li>(cont)</li> <li>Negative         <ol> <li>Bread served with soups may be uncovered for a the lunch period so those getting school meals last may find it stale/hard which is not good as children may not eat the bread so not achieving the target to increase their bread consumption by 45% from present daily intake to 106g (mainly by using wholemeal and brown breads).</li> </ol> </li> </ul>	Mark	
		Ν	<ol> <li>Choice of breads may be limited towards the end of school meals which could put some children off which is bad as they will not then increase their bread consumption by 45% from present daily intake to 106g (mainly by using wholemeal and brown breads).</li> <li>Breakfast cereals Average intake to double from current intake of 17g per day/increases to 34g.</li> </ol>		
		Ρ	<ol> <li>Positive</li> <li>School meals have included breakfast cereals into their home baking which is good as this will help increase their intake contributing to deviating the contributing to deviating the contribution of 17 mer days.</li> </ol>		
		Ρ	<ul> <li>doubling their current intake of 17g per day.</li> <li>2. School meals offer breakfast clubs selling a variety of cereals which is good because it will help children double their current intake of 17g per day.</li> </ul>		
		N	<ol> <li>Negative</li> <li>School meals may not serve branded breakfast cereal so putting some children off. This is bad as it will not help to double current breakfast cereal intake of 17g per day.</li> </ol>		

Qu	Question		Expected Answer/s	Max Mark	Additional Guidance
4	а		(cont) Fat Average intake of total fat to reduce (from 40.7%) to no more than 35% of food energy. Average intake of saturated fatty acids to reduce (from 16.6%) to no more than 11% of food energy.		
		P	<ol> <li>Positive</li> <li>School meals only offer savoury crackers/ oatcakes/breadsticks as savoury snacks which is good because it will help achieve the target to reduce average intake of total fat from 40-7% to no more than 35% of food energy/ reduce average intake of saturated fatty acids from 16-6% to no more than 11% of food energy.</li> <li>School meals do not serve butter/ spreads with bread/sandwiches which is good because it will help reduce average intake of total fat from</li> </ol>		
		Ρ	<ul> <li>40.7% to no more than 35% of food energy.</li> <li>3. School meals can only serve chips as an accompaniment to meals which is good because it will help reduce average intake of total fat from 40.7% to no more than 35% of food energy.</li> </ul>		
		Ρ	<ol> <li>Main meals served for school meals often contain poultry/fish rather than red meat reducing total fat intake which is good because it will help reduce average intake of total fat from 40.7% to no more than 35% of food energy/ reduce average intake of saturated fatty acids from 16.6% to no more than 11% of food energy.</li> </ol>		
		Ρ	<ol> <li>Many fatty foods such as burgers/pizza served for school meals are now grilled/ baked which is good as it will help reduce average intake of total fat from 40.7% to no more than 35% of food energy/reduce average intake of saturated fatty acids from 16.6% to no more than 11 % of food energy.</li> </ol>		

Qu	Question		Expected Answer/s	Max Mark	Additional Guidance
4	а		(cont)		
		Ρ	6. School meals only serve semi skimmed milk (milk with less than 1.8g per 100ml) which is good because it will help reduce average intake of saturated fatty acids from 16.6%to no more than 11% of food energy.		
		Ρ	7. School meals cannot provide food that has been deep fried either in the cooking/ manufacturing process more than 3 times per week which is good because it will help reduce average intake of total fat from 40.7% to no more than 35% of food energy/reduce average intake of saturated fatty acids from 16.6% to no more than 11% of food energy.		
		N	<ol> <li>Negative</li> <li>School meals still offer burgers/pies which can be high in saturated fats this is bad because it will not help reduce average intake of saturated fatty acids from 16.6% to no more</li> </ol>		
		Ν	<ul> <li>than 11% of food energy.</li> <li>2. Crisps sold in the school meals are not limited so children may eat too many packets which is bad because it will not help reduce average intake of saturated fatty acids from 16.6% to</li> </ul>		
	<ul> <li>N 3. Breakfast clubs run by school meals offer bacon/sausage rolls which is bad because it will increase total fat so not reducing average intake of total fat from 40.7% to no more than 35% of food energy/reduce average intake of saturated fatty acids from 16.6% to no more than 11% of food energy.</li> </ul>				

Qu	Question		Expected Answer/s	Max Mark	Additional Guidance
4	а		(cont) Salt Average sodium intake to reduce from 163mmol to 100mmol per day/6g per day.		
		Ρ	<ul> <li>Positive</li> <li>1. School meals cannot sell food/drink with added salt which is good because it will help reduce the average intake of salt from 163mmol to 100mmol per day.</li> </ul>		
		Ρ	2. School meals cannot offer any salt to pupils, which is good because (they may have enough from processed foods) so this will help reduce the average intake of salt from 163mmol to 100mmol per day.		
		Ρ	<ol> <li>School meals flavour foods using herbs and spices, which is good as it will help reduce the average intake of salt from 163mmol to 100mmol per day.</li> </ol>		
		N	<ol> <li>Negative</li> <li>School meals still offer processed burgers/ chicken burgers which can be high in salt this is bad as it will not help reduce the average intake of salt from 163mmol to 100mmol per day.</li> </ol>		
			Sugar Average intake of NME sugars in adults not to increase Average intake of NME sugars in children to reduce by half to less than 10% of total energy.		
		Ρ	<ul> <li>Positive</li> <li>School meals no longer sell sweets/ confectionary which is good as this will help children to reduce their sugar intake by half to less than 10% of energy intake.</li> </ul>		
		Ρ	<ol> <li>School meals do not sell any fizzy drinks, which is good because this will help children to reduce their sugar intake by half to less than 10% of energy intake.</li> </ol>		
		N	<ol> <li>Negative</li> <li>School meals sell a selection of home baking/muffins this is bad as these can be high in sugar so will not help reduce children's sugar intake by half to less than 10% of energy intake.</li> </ol>		

Qu	Question		Expected Answer/s		Additional Guidance
4	a		(cont) Total complex carbohydrates (Increase non sugar carbohydrates) intake by 25% (from 124g per day). Consumption of fruit and vegetables, bread,		
			breakfast cereals, rice pasta and an increase in potato consumption.		
		Ρ	<ol> <li>Positive</li> <li>School meals offer pasta/potatoes/rice with every main meal which is good as it will help increase non sugar carbohydrates intake by 25% from 124g per day.</li> </ol>		
		Ν	<ol> <li>Negative</li> <li>Pupils may not like the sauce/dish school meals are serving with the pasta/potatoes/rice which is bad because this may stop them trying the dish so will not help contribute to meeting the target of increasing non sugar carbohydrates intake by 25% from 124g per day.</li> </ol>		
			(Also see targets for fruit and vegetables/ bread/ breakfast cereals - to award mark answer must relate to the dietary target for total complex carbohydrates)		

Ques	tion	Expected Answer/s		Additional Guidance
4 a	1	(cont)		
		Fish White fish consumption to be maintained at current levels Oil-rich fish to be doubled from 44g per week to 88g per week		
	P P	<ol> <li>Positive</li> <li>School meals offer tuna/salmon as a sandwich fillings/baked potato fillings which is good as it will help increase oily fish consumption from 44g to 88g per week.</li> <li>School meals must provide oily fish/ tuna/ salmon at least once every three weeks which is good as it will help increase oily fish consumption from 44g to 88g per week.</li> <li>School meals offer white fish as a main meal option at least once per week which is good because it will help maintain white fish consumption at its current level.</li> </ol>		
	N	<ol> <li>Negative</li> <li>Pupils may choose other options from school meals so not include fish in their weekly diet this is bad as it will not contribute to increase oily fish consumption from 44g to 88g per week maintaining white fish consumption at its current level.</li> <li>Although school meals offer fish pupils may be put off by the smell/aroma which is bad as it will not contribute to increase oily fish consumption from 44g to 88g per week maintaining white fish consumption at its current level.</li> </ol>		

Questic	Expected Answer/s	Max Mark	Additional Guidance
4 b	4 x 1 mark for each explanation linked to consumer. Minimum of one mark from each area.	the 4KU	
	Myco-proteins		
	<ol> <li>Myco-proteins are low in fat/low in calo they can be used to create healthy option weight reduction food products for the consumer.</li> <li>Myco-proteins can be shaped/chunks/n so they can be used to create a wide val food products for the consumer.</li> <li>Myco-proteins can be easily/frozen/chi are convenient can save time when prep variety of foods for the consumer.</li> <li>Myco-proteins do not need any prepara they will save the consumer time.</li> <li>Myco-proteins can be used to replace n they contain a source of (high biological) protein) so can be used to produce dishe vegetarians/ increasing the choice of foo the consumer.</li> <li>Myco-proteins contain vitamin B comple so may be beneficial for consumers wh vegetarian as these nutrients are often la in their diets.</li> <li>Myco-proteins do not shrink when cook there is no waste making them more ecc to use for the consumer.</li> <li>Myco-proteins do not contain any fat/gr there will be no waste making them more economical to use for the consumer.</li> <li>Myco-proteins do not lose any of their nutritional value during cooking/freezing final food product will have a high nutritic value for the consumer.</li> <li>Myco-proteins are similar in texture to r however is lower in fat so could be used low fat alternative for the consumer.</li> <li>Myco-proteins are similar in texture to r however is lower in fat so could be used low fat alternative for the consumer.</li> <li>Myco-proteins are similar in texture to r however is lower in fat so could be used low fat alternative for the consumer.</li> <li>Myco-proteins are similar in texture to r however is lower in fat so could be used low fat alternative for the consumer.</li> <li>Myco-proteins are similar in texture to r however is lower in fat so could be used low fat alternative for the consumer.</li> <li>Myco-proteins are cheaper than meat s benefit the consumer as it will save ther money.</li> </ol>	ns/ minced riety of lled <b>so</b> aring a tion <b>so</b> neat ( <b>as</b> es for d for ex/zinc o are acking ed <b>so</b> nomical istle <b>so</b> es <b>so</b> so the onal neat as a er roduct o	

Question	Expected Answer/s		Additional Guidance
4 b ii	<ol> <li>Modified atmosphere packaging (MAP)</li> <li>Modified atmosphere packaging has increased the variety of foods available all year round so benefits the consumer as it increases their choice of food.</li> <li>Modified atmosphere packaging extends the shelf life of fresh foods without the use of preservatives/additives so benefits consumers who may be concerned about the impact of additives on health.</li> <li>Modified atmosphere packaging reduces the oxygen content of the pack/ preventing the growth of some micro-organisms (aerobes) so benefits the consumer as it reduces the risk of food poisoning.</li> <li>Modified atmosphere packaging is only suitable for good quality products so will benefit the consumer as they know they are getting a high quality product.</li> <li>As the normal atmosphere in modified atmosphere packaging is changed the products will keep a better appearance so will benefit the consumer as it will remain appealing to the consumer reducing waste.</li> <li>Modified atmosphere packaging has allowed a wide variety of foods which are good quality/ easy to prepare/preservative free to be produced so benefits the consumer as it meets their needs of having high quality products that require minimum preparation to fit in with their busy lifestyles.</li> <li>Foods packaged using modified atmosphere packaging are packed in easy to store forms so benefiting the consumer as it helps them stack foods easily after shopping.</li> <li>The packaging allows the consumer to see the food before purchasing it so benefiting the consumer as they will know exactly what they are getting before purchase.</li> <li>As the colour of foods packaged using modified atmosphere packaging does not deteriorate (until opened) this will benefit the consumer as it ensures they are getting a product in its best condition.</li> </ol>		

Qu	Question		Expected Answer/s		Max Mark	Additional Guidance
4	b	ii	(cont)			
			packaging is wate quality during stor as they will be get 11. MAP extends she	a modified atmosphere er resistant improving keeping age benefiting the <b>consumer</b> ting a high quality product. If life of fresh foods so benefits lows them to take advantage ave money.		
4	с		3 x 1 mark for each co to <b>food products</b> .	prrect evaluation point related	3EV	
			Fact Opinion	factor relating to sugar substitute positive/negative		
			Consequence	Impact of the fact on the food product		
		Ρ	content of food p			
		Ρ	2. Sugar substitute products have a calorific value so v	orie content of foods. <b>s</b> used in making <b>food</b> lower/no energy value/ low will be good <b>as</b> it will increase ht reduction products		
		Ρ	3. Sugar substitute not contain (harm good as they will h	<b>s</b> used in <b>food products</b> do ful/NME) sugars so will be help meet the demand for low		
		Ρ	<ul> <li>sugar products/meet current dietary advice.</li> <li>Some sugar substitutes used to make food products do not need insulin to be metabolised which is good as it will increase the choice of</li> </ul>			
		Ρ	<ul> <li>foods available for diabetics.</li> <li>5. Sugar substitutes can enhance the sweetness of food products which is good as it will improve the flavour of foods making them more</li> </ul>			
		Ρ	<ul> <li>appealing.</li> <li>Sugar substitutes can be used in food products such as confectionary/baked products which is good as it will increase the range of "backby aptian" faced.</li> </ul>			
		Ρ	<ol> <li>Bulk sweeteners a in food products confectionery) whi the range of products</li> </ol>	which is good <b>as</b> it will increase the range of 'healthy option' foods.		

Qu	esti	on	Expected Answer/s	Max Mark	Additional Guidance
4	C	N N N	<ul> <li>(cont)</li> <li>Negative <ol> <li>Some sugar substitutes can leave an unpleasant aftertaste so would not be good in food products as the aftertaste may reduce the number of repeat purchases.</li> <li>Some sugar substitutes change the flavour of food products which is bad as other products may be favoured.</li> <li>Some sugar substitutes (aspartame) which are used to produce food products have been linked to causing severe migraines/cancer which is bad as products containing sugar may be favoured.</li> <li>When using sugar substitutes in food products at home recipes will need to be adapted which may be bad because they may be done incorrectly/food may be wasted</li> </ol> </li> </ul>		
4	d	1	<ul> <li>be done incorrectly/food may be wasted.</li> <li>2 x 1 mark for each correct dietary factor.</li> <li>2 x 1 mark for each explanation linked to the requirements of someone recovering from an illness (convalescent).</li> <li>Dietary factor – Good intake of calcium.</li> <li>Explanation</li> <li>1. Foods that contain a good supply of calcium should be eaten by a convalescent with a broken bone so that it heals strongly.</li> </ul>	4KU	
		2	<ul> <li>Dietary factor – Good intake of protein.</li> <li>Explanation</li> <li>1. Convalescent should have a good protein intake to allow damaged cells and tissues to be repaired</li> </ul>		
		3	<ul> <li>Dietary factor – Good intake of iron.</li> <li>Explanation</li> <li>1. Convalescent recovering from an operation/ accident should have a good supply of iron to help replace blood loss.</li> </ul>		

Qı	Question		Expected Answer/s	Max Mark	Additional Guidance
4	d		(cont)		
		4	<ul> <li>Dietary factor – Good intake of Vitamin C Explanation</li> <li>1. Convalescents recovering from an operation/ accident should have a good supply of Vitamin C to help cuts/wounds heal quicker/ recover quicker.</li> <li>2. Convalescents recovering from an operation/ accident should have a good supply of Vitamin C to help absorb iron/prevent anaemia.</li> </ul>		
		5	<ul> <li>Dietary factor – Good intake of NSP/ dietary fibre</li> <li>Explanation</li> <li>1. Foods that supply a good source of NSP should be eaten as this will help prevent convalescent suffering from constipation.</li> <li>2. Foods that supply a good source of NSP should be eaten as this will make the convalescent feel full/prevent snacking on fatty/sugary foods .</li> </ul>		
		6	<ul> <li>Dietary factor – Increased intake of liquids should be included.</li> <li>Explanation</li> <li>Convalescents require plenty of liquids particularly those that supply energy/ vitamins/ protein as prevents dehydration.</li> </ul>		
		7	<ul> <li>Dietary factor – Avoid foods high in fats/saturated fats.</li> <li>Explanation</li> <li>1. Convalescents should avoid foods with a lot of fat as they will not be as active as usual to use up all the energy/prevent obesity.</li> <li>2. Convalescents should avoid foods with a lot of saturated fat to prevent cholesterol/ heart disease.</li> </ul>		
		8	<ul> <li>Dietary factor – Avoid foods high in sugar.</li> <li>Explanation</li> <li>1. Convalescents should avoid foods with a lot of sugar as they will not be as active as usual to use up all the energy/prevent obesity.</li> </ul>		
		9	<ul> <li>Dietary factor – Greasy foods should be avoided.</li> <li>Explanation</li> <li>Convalescents should avoid greasy foods as they may be difficult to digest.</li> </ul>		

Qı	Question		Expected Answer/s	Max Mark	Additional Guidance
4	d		(cont)		
		10	<ul> <li>Dietary factor – Spicy foods should be avoided.</li> <li>Explanation         <ol> <li>Convalescents should avoid highly seasoned spicy foods as these may upset the digestive system</li> </ol> </li> <li>Dietary factor – Energy intake         <ol> <li>Explanation</li> <li>Convalescents should try to get energy from TCC rather than fats as they are less active so will not use energy gained from fats.</li> <li>Convalescents should reduce total energy intake as they are less active so use less energy/avoids obesity weight gain.</li> </ol> </li> </ul>		

Qu	esti	on	Expected Answer/s	Max Mark	Additional Guidance
Qu 4	estic	<ul> <li>For correct explanation of responsibility of Department for Environment Food and Rural Affairs (DEFRA)</li> <li>For correct explanation of responsibility of Food Standards Agency(FSA)</li> <li>Minimum of one mark from each area.</li> <li><b>i</b> Department for Environment Food and Rural Affairs (DEFRA)</li> <li>1. The Department for Environment Food and Rural Affairs is responsible for the natural environment/biodiversity so protecting plants/ animals.</li> <li>2. The Department for Environment Food and Rural Affairs is responsible for sustainable development and the green economy so protecting the environment.</li> <li>3. The Department for Environment Food and Rural Affairs are responsible for promoting modem/adaptable farming methods by finding ways to prevent future animal/plant/fish disease</li> <li>4. The Department for Environment Food and Rural Affairs is responsible for protection of public health in relation to food and animal welfare by reducing/ controlling/protecting the risk of animal diseases being passed to humans.</li> <li>5. The Department for Environment Food and Rural Affairs is responsible for ensuring high standards of animal welfare so that farm animals and fish are protected from unnecessary pain/ distress.</li> <li>6. The Department for Environment Food and Rural Affairs is responsible for better</li> </ul>			Additional Guidance
			•		

Qu	Question		Expected Answer/s	Max Mark	Additional Guidance
4	е	i	(cont)		
			<ol> <li>9. The Department for Environment Food and Rural Affairs is responsible for controlling chemicals/genetically modified organisms/ radioactive substances being released into the environment so protecting the environment.</li> <li>10. The Department for Environment Food and Rural Affairs is responsible for trying to reduce rural poverty/address the needs of people living in rural areas to help in the development of the economy in rural areas.</li> <li>11. The Department for Environment Food and Rural Affairs is responsible for safeguarding the supply of wholesome/varied/reasonable priced food and drink by promoting a competitive food chain.</li> <li>12. The Department for Environment Food and Rural Affairs encourages the development of local, speciality/other value added products to promote the food chain.</li> <li>13. The Department for Environment Food and Rural Affairs is responsible for modernising agriculture to increase competitiveness by promoting modern farming techniques in the UK and the EU.</li> <li>14. Department for Environment Food and Rural Affairs is responsible for giving guidance within the food industry on a range of food (for example information for egg and poultry farmers/new EU beef labelling regulations/EU regulation on the protection of food names/ speciality food and drink sector.)</li> </ol>		

Question	Expected Answer/s	Max Mark	Additional Guidance
4 e i	<ol> <li>Food Standards Agency</li> <li>The Food Standards Agency is responsible for providing advice/ information to the public/ government on food safety.</li> <li>The Food Standards Agency is responsible for the protection of the public in relation to food hygiene.</li> <li>The Food Standards Agency is responsible for giving advice to the public on food safety and standards therefore raising awareness and educating the public.</li> <li>The Food Standards Agency is responsible for representing the consumer in matters of food safety/ standards so the voice of the consumer is heard.</li> <li>The Food Standards Agency is responsible for the licensing of meat processing companies to ensure hygiene controls on meat and meat products.</li> <li>In Scotland the Food Standards Agency is responsible for dealing with issues relating to meat and meat products and/or regulation of animal feed.</li> <li>In Scotland the Food Standards Agency is responsible for dealing with issues relating to food hygiene/novel foods/radiological safety/food emergencies.</li> <li>The Food Standards Agency is responsible for controlling genetically modified food for human consumption/ animal feedstuff.</li> <li>The Food Standards Agency is responsible for the advice on nutrient content of food/dietary issues/healthy eating.</li> <li>The Food Standards Agency is responsible for monitoring of the composition of food additives.</li> <li>The Food Standards Agency is responsible for monitoring of the composition of food additives.</li> <li>The Food Standards Agency is responsible for monitoring of the composition of food additives.</li> <li>The Food Standards Agency is responsible for the regulation/sale of natural mineral water/ bottled water/spring water.</li> <li>The Food Standards Agency is responsible for the food Standards Agency is responsible for commissioning research into food related matters so the industry and public are kept up to date with safety issues.</li> <li>The Foo</li></ol>		

Qu	Question		Expected Answer/s		Additional Guidance
4	е	ii	(cont)		
			<ol> <li>15. The Food Standards Agency is responsible for protecting the consumer through effective enforcement and monitoring of food related regulations/policies/legislation.</li> <li>16. The Food Standards Agency is responsible for developing food labelling/labels to give more accurate information to help with safe storage of food/prevent food safety risks/outbreaks of food poisoning.</li> <li>17. The Food Standards Agency is responsible for representing the UK on matters of food safety/ food standards in the EU and worldwide.</li> <li>18. The Food Standards Agency is responsible for protecting the consumer against chemical contaminants in food.</li> </ol>		

Contex	t: X	(	Health and Food Technology					
Higher Home Economics. Analysis of the 2013 Question Paper								
Section A								

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Question	Resource Manageme	nt Unit	Consumer Studies Unit		Course	Totals	
	Course content	Mark	Course content	Mark	Knowledge	Evaluation	
1	Causes of food poisoning	1			1		1
2	Functions and sources of the nutrients.	1			1		1
3	Dietary needs: pregnancy	1			1		1
4			Current voluntary food labelling	1	1		1
5	Use of DRV's	1			1		1
6	Functional properties of food.	1			1		1
7	Functional properties of food.	1			1		1
Totals		6		1	7	0	7

	Context:	Х	Health and Food Technology				
Higher Home Economics. Analysis of the 2013 Question Paper							
Section A (continued)							

Question	Resource Manageme	nt Unit	Consumer Studies L	Course	Totals		
	Course content	Mark	Course content	Mark	Knowledge	Evaluation	
8			Consumer Protection from Unfair Trading Regulations 2008	1	1		1
9	Inter-relationship of: water and dietary fibre	2			2		2
10			The impact of technological developments on consumer choice of food	2	2		2
11	Prevention of dietary diseases: CHD	2			2		2
12	Dietary needs: infants	2			2		2
13	Product development strategy	2			2		2
14			The impact of technological developments on consumer choice of food	2		2	2
Carried forward		6		1	7	0	7
Totals		14		6	18	2	20

	Context:	х	Health and Food Technology
Higher Home Economics. Analysis of the 2013 Question Paper			

## **Section B Question 1**

Question	Resource Manageme	ent Unit	Consumer Studies	s Unit	Course	Skills	Totals
	Course content	Mark	Course content	Mark	Knowledge	Evaluation	
1a	Use of DRVs – teenager	6				6	6
b	Prevention of dietary diseases: obesity	6			6		6
с	Function and sources of nutrients	4				4	4
d	Effects of cooking on nutrients	4			4		4
Totals		20		0	10	10	20

	Context:	х	Health and Food Technology
Higher Home Economics. Analysis of the 2013 Question Paper			
Section B Question 2			

Question	Resource Management Unit		Consumer Studies Unit		Course Skills		Totals
	Course content	Mark	Course content	Mark	Knowledge	Evaluation	
a)	Product development strategy	6			6		6
b)	Sensory testing	5				5	5
c)			Role and responsibilities of Environmental Health Department (EHD)	3	3		3
d)			The impact of technological developments on consumer choice of food	4		4	4
e)			The consumer within the European dimension	2	2		2
Totals		11		9	11	9	20

	Context:	X	Health and Food Technology
Higher Home Economics. Analysis of the 2013 Question Paper			
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## Section B Question 3

Question	Resource Management Unit		Consumer Studies Unit		Course Skills		Totals
	Course content	Mark	Course content	Mark	Knowledge	Evaluation	
a)	Causes of food poisoning	6			6		6
b)	The use of DRV,s and awareness of needs for: vegetarians	4				4	4
c)			Food politics	4	4		4
d)			Factors which influence consumer choice of food	4		4	4
e)	Functional properties of food.	2			2		2
Totals		12		8	12	8	20

	Context:	X	Health and Food Technology
Higher Home Economics. Analysis of the 2013 Question Paper			

## Section B Question 4

Question	Resource Management Unit		Consumer Studies Unit		Course Skills		Totals
	Course content	Mark	Course content	Mark	Knowledge	Evaluation	
a)	Current dietary advice	5				5	5
b)			The impact of technological developments on consumer choice of food	4	4		4
c)	Functional properties of food	3				3	3
d)	The use of DRV,s and awareness of needs for: convalescents	4			4		4
e)			Role and responsibilities: DEFRA & FSA	4	4		4
Totals		12		8	12	8	20

	Context:	X	Health and Food Technology
Higher Home Economics. Analysis of the 2012 Question Paper			

## Question Paper Summary: Mark Allocation

Question	Unit ti	tle	Course	Totals	
	Resource Management	Consumer Studies	Knowledge	Evaluation	
Section A	14	6	18	2	20
Section B					
1	20	0	10	10	20
2	11	9	11	9	20
3	12	8	12	8	20
4	12	8	12	8	20
Totals	57-58	22-23	51-52	28-29	
Target Range	50 – 60 marks	20 – 30 marks	50 – 55 marks	25 – 30 marks	80

[END OF MARKING INSTRUCTIONS]