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General Certificate of Secondary Education 2012

# **Home Economics**

Unit 1: Diet and Health and Consumer Awareness

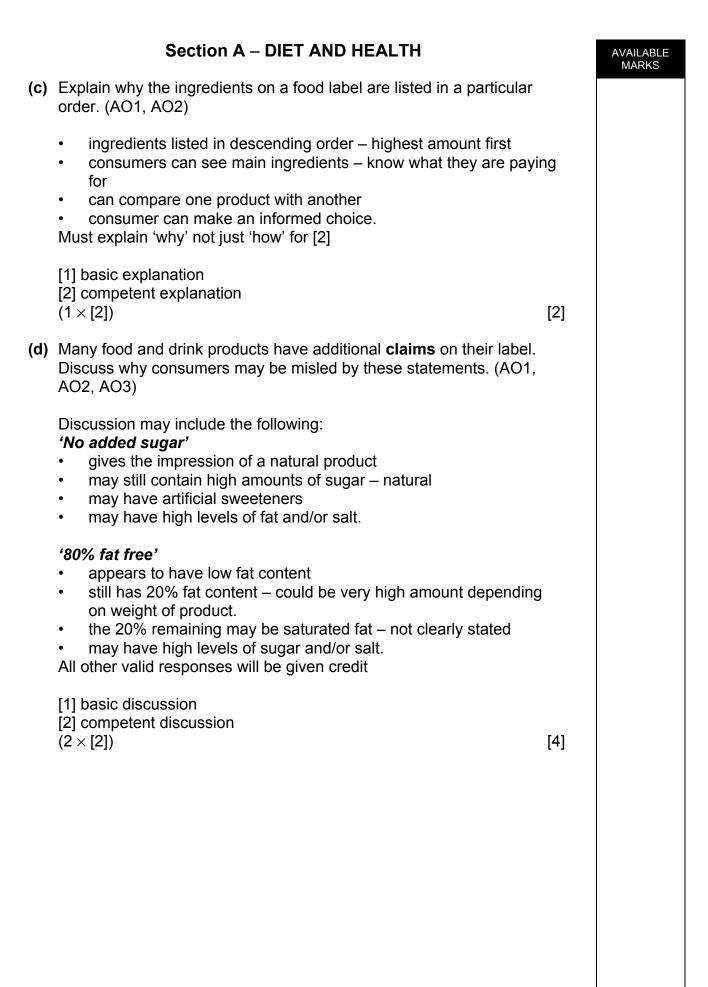
# [GHE11]

MONDAY 14 MAY, MORNING

# MARK SCHEME

		Section A – DIET AND HEALTH	AVAILABLE MARKS
1	(a)	Write down two sources of starchy foods. (AO1)	
		<ul> <li>Answers may include any two of the following foods:</li> <li>bread</li> <li>rice</li> <li>pasta</li> <li>potato</li> <li>breakfast cereals.</li> <li>All other valid responses will be given credit</li> </ul>	
		(2×[1]) [2]	
	(b)	Suggest <b>four</b> pieces of dietary advice to reduce dental caries. (AO1)	
		<ul> <li>Answers may include any four of the following points:</li> <li>eat more milk and dairy products</li> <li>eat sweets all at once or after a meal</li> <li>drink water</li> <li>cut down on the amount of sugary foods eaten, e.g. sweets, biscuits</li> <li>replace sugary drinks with water</li> <li>cut down on sticky chewy foods which stay in the mouth for a long time, e.g. toffee, some breakfast cereals</li> <li>replace sugary snacks with fruit or vegetables</li> <li>eat cheese after a meal to balance the effects of acid produced by bacterial plaque</li> <li>take sugar-free chewing gum as this creates saliva production – helps to neutralise acids which cause tooth decay</li> <li>avoid adding sugar to foods</li> <li>do not snack between meals.</li> <li>NOT: attend dentist/brush teeth/use fluoride toothpaste</li> <li>All other valid points will be given credit</li> </ul>	
		(4 × [1]) [4]	
	(c)	<ul> <li>Identify a health problem that may develop from a low intake of non-starch polysaccharide (NSP). (AO1)</li> <li>Answers may include any <b>one</b> of the following points: <ul> <li>constipation</li> <li>bowel disorders, e.g. diverticulitis, bowel cancer</li> <li>heart disease</li> </ul> </li> </ul>	
		<ul> <li>high cholesterol</li> <li>obesity</li> <li>cancer</li> <li>diabetes</li> <li>high blood pressure.</li> </ul>	
		(1 × [1]) [1]	
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	Section A – DIET AND HEALTH	AVAILABLE MARKS
(d)	Explain why eating foods rich in NSP can help maintain a healthy weight. (AO1, AO2)	
	<ul> <li>Answers should address any of the following points:</li> <li>soluble NSP takes longer to digest so helps keep blood sugar levels constant</li> <li>they are rich in fibre which helps to absorb water – makes us feel full for longer</li> <li>provide feeling of fullness so less likely to snack on high fat/sugar foods – less risk of obesity</li> <li>generally low in fat and/or sugar so less risk of weight gain.</li> <li>All other valid responses will be given credit</li> </ul> [1] basic explanation <ul> <li>[2] competent explanation</li> <li>(1 × [2])</li> </ul>	9
2 (a)	Identify a function of the following vitamins: (AO1)	
	<ul> <li>(i) Vitamin B<sub>1</sub>: <ul> <li>helps the release of energy from carbohydrates/food</li> <li>needed for normal growth in children</li> <li>functioning and maintenance of nerves</li> <li>strengthens the immune system</li> <li>assists use of enzymes</li> <li>healthy mucous membranes.</li> </ul> </li> <li>(ii) Vitamin D: <ul> <li>works with calcium to form healthy teeth</li> <li>assists calcium to strengthen bones.</li> </ul> </li> </ul>	
	(2 × [1]) [2]	
(b)	<ul> <li>Write down two dietary disorders linked to a high amount of salt in the diet. (AO1)</li> <li>Answers should include any two of the following points: <ul> <li>heart disease</li> <li>increased blood pressure/hypertension</li> <li>stroke.</li> </ul> </li> <li>NOT: obesity</li> </ul>	
	(2 × [1]) [2]	



	Section A – DIET AND HEALTH		AVAILABLE MARKS
(e)	Discuss <b>two</b> ways convenience foods can be used in preparing healthy balanced meals. (AO1, AO2, AO3)		
	<ul> <li>Answers may include any two of the following points:</li> <li>frozen vegetables added to stews or casseroles as nutrients retained by freezing – increasing vegetable intake</li> <li>dried pasta or rice used with fresh meat or chicken and vegetables to increase carbohydrate intake</li> <li>canned fish, e.g. tuna, salmon used with pasta and sauce to create quick lunch</li> <li>pizza base used with tomato sauce, vegetables and meat/chicken.</li> </ul>		
	Responses should show an understanding of the <b>use</b> of convenienc foods in relation to either nutrients provided or <b>how</b> they are used in balanced meal All other valid responses will be given credit		
	[1] basic discussion [2] competent discussion $(2 \times [2])$	[4]	14
3 (a)	<ul> <li>Explain the importance of iron in the diet of a pregnant woman.</li> <li>(AO1, AO2, AO3)</li> <li>meets mother's needs, e.g. prevents tiredness, prevents anaem <ul> <li>extend by reference to oxygen carrying</li> <li>reference to haemoglobin/component in blood</li> </ul> </li> <li>helps develop baby's blood system</li> <li>builds iron stores for first months after birth.</li> </ul>	ia	
	<ul> <li>[1] basic explanation</li> <li>[2] competent explanation</li> <li>[3] highly competent explanation</li> <li>(1 × [3])</li> </ul>	[3]	
(b)	<ul> <li>Explain why pregnant women are encouraged to drink orange juice with foods containing iron. (AO1, AO2)</li> <li>provides vitamin C</li> <li>increases absorption of iron</li> <li>reduces non-haem iron to haem iron</li> <li>maximises availability of iron.</li> </ul>	h	
	[1] basic explanation [2] competent explanation $(1 \times [2])$	[2]	
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		Section A – DIET AND HEALTH		AVAILABLE MARKS
	(c)	Explain why pregnant women are given the following advice: (AO1, AO2, AO3)		
		<ul> <li>(i) Avoid soft cheese, e.g. Brie:</li> <li>may contain listeria bacteria</li> <li>increases risk of miscarriage or stillbirth</li> <li>premature birth</li> <li>baby may be born ill or get sick soon after birth</li> <li>may cause serious illness, e.g. meningitis.</li> </ul>		
		<ul> <li>(ii) Avoid liver:</li> <li>causes birth defects</li> <li>contains high levels of vitamin A</li> <li>can be toxic to unborn baby in excess.</li> </ul>		
		<ul> <li>(iii) Increase folic acid:</li> <li>helps development of brain and nervous system</li> <li>prevents neural tube defects, e.g. spina bifida/cleft lip/palate</li> <li>prevents premature birth/congenital heart disease</li> <li>assists growth of baby</li> <li>prevents anaemia – makes red blood cells</li> <li>prevents low birth weight</li> <li>essential for cell formation.</li> </ul>		
		NOT: just 'development' of baby/harmful or dangerous for any of the above		
		[1] basic explanation [2] competent explanation $(3 \times [2])$	[6]	11
4	Ma	ny people suffer from food intolerance.		
	(a)	Write down <b>two</b> symptoms of lactose intolerance. (AO1)		
		<ul> <li>Answers should include any two of the following points:</li> <li>sickness/nausea</li> <li>stomach cramps</li> <li>bloatedness</li> <li>flatulence</li> <li>diarrhoea</li> <li>urgent need to use toilet – bowel movements</li> <li>weight loss.</li> </ul>		
		(2 × [1])	[2]	

	Section A – DIET AND HEALTH	AVAILABLE MARKS
(b)	Underline <b>three</b> foods which should <b>not</b> be eaten by someone who is lactose intolerant. (AO1) Accept circling.	
	<ul> <li>Answers must include the following:</li> <li>cow's milk</li> <li>custard</li> <li>goat's milk.</li> </ul>	
	(3 × [1]) [3]	
(c)	Discuss <b>two</b> points of diet and lifestyle advice for a person with coeliac disease. (AO1, AO2, AO3)	
	<ul> <li>Answers may include any two of the following points:</li> <li>contact GP for advice</li> <li>avoid foods containing gluten, e.g. wheat, barley, rye</li> <li>substitute gluten containing foods with gluten free foods, e.g. rice, potatoes, cornflour</li> <li>check food labels</li> <li>speak to a dietitian</li> <li>exercise (only award [1] unless fully explained that coeliac sufferers may experience weight gain when diagnosed).</li> </ul>	
	[1] basic discussion[2] competent discussion $(2 \times [2])$ [4]	9

**5** Suggest and justify diet and lifestyle advice for parents wanting to reduce their children's risk of obesity. (AO1, AO2, AO3)

Answers may address any of the following points:

- reduced intake of fat, especially saturated fat, e.g. reduce intake of processed/fast food, change cooking methods – grill instead of frying
- reduce intake of sugar, e.g. switch to low sugar breakfast cereals, low sugar snacks such as fruit, reduce consumption of fizzy drinks
- increase intake of fruit and vegetables as they are low in calories, fat and sugar, e.g. eat as a snack and include at mealtimes
- increase NSP intake to encourage a feeling of fullness and prevent snacking, e.g. wholegrain toast or cereals
- try to achieve a balanced diet by following the advice from the 'eatwell plate'
- try to achieve energy balance by ensuring kcal taken in as food are balanced with the amount of kcal used doing physical activity
- encourage good eating habits at home, e.g. three meals a day and healthy snacks
- encourage them to take up a sport
- encourage them to be actively involved in games at school
- encourage them to join an organisation that promotes physical activity
- get family membership of a gym
- encourage children to take a healthy packed lunch
- get children involved in cooking
- breastfeeding
- portion size
- reading food labels.

All other valid points will be given credit

Must have diet **and** lifestyle points and relate to reducing risk of obesity to access Level 3

If list-like bullet points, no access to Level 3

[0] is awarded for a response not worthy of credit

#### Level 1 ([1]-[3])

Overall impression: basic

- identifies and comments on a few obvious points relevant to the question
- a limited justification applied in simple terms to the question
- quality of written communication is basic.

#### Level 2 ([4]-[6])

Overall impression: competent

- identifies and comments on some key points relevant to the question
- a competent justification applied accurately to the question
- quality of written communication is competent.

#### Level 3 ([7]-[9])

Overall impression: highly competent

- identifies and comments on the key points relevant to the question
- a highly competent justification applied accurately within the context of the question
- quality of written communication is highly competent.

(1 × [9])

[9]

AVAILABLE MARKS 6 Describe the nutritional benefits of a vegetable and noodle stir-fry for an adolescent. (AO1, AO2, AO3)

Answers should address some of the following points:

- increases intake of vegetables to meet 5-a-day recommendation encourages well-balanced diet for the adolescent
- carbohydrate, found in sweetcorn, peas and beans relates to recommendation of 50% of energy, needed for adolescents
- protein, found in peas, beans, nuts and seeds helps growth, repair and maintenance
- vegetables and noodles are low in fat, therefore reducing risk of obesity in adolescence
- unsaturated fat used for cooking will reduce risk of CHD
- adds NSP, found in skins of vegetables prevents bowel disorders
- iron, found in green leafy vegetables, beansprouts, peas and beans needed to form haemoglobin in red blood cells – essential to prevent anaemia, common in adolescence
- calcium, found in green leafy vegetables strengthens bones and teeth
- vitamin A, found in carrots, green leafy vegetables, red and orange peppers, needed for night vision, healthy skin, e.g. skin problems in adolescence
- vitamin C, found in broccoli and peppers helps absorption of iron, maintains connective tissue
- vitamins A and C, antioxidant vitamins provide protection against some diseases, e.g. CHD
- high heat results in quicker cooking food in contact with oil for less time, vegetables maintain structure so less loss of vitamins
- sauces could add additional salt/sugar so their content should be considered.

All other valid points should be considered

Must refer to an adolescent and discuss specific vegetables to access Level 3

[0] is awarded for a response not worthy of credit

## Level 1 ([1]-[3])

Overall impression: basic

- identifies and comments on a few obvious points relevant to the question
- a limited description applied in simple terms to the question
- quality of written communication is basic.

## Level 2 ([4]-[6])

Overall impression: competent

- identifies and comments on some key points relevant to the question
- a competent description applied accurately to the question
- quality of written communication is competent.

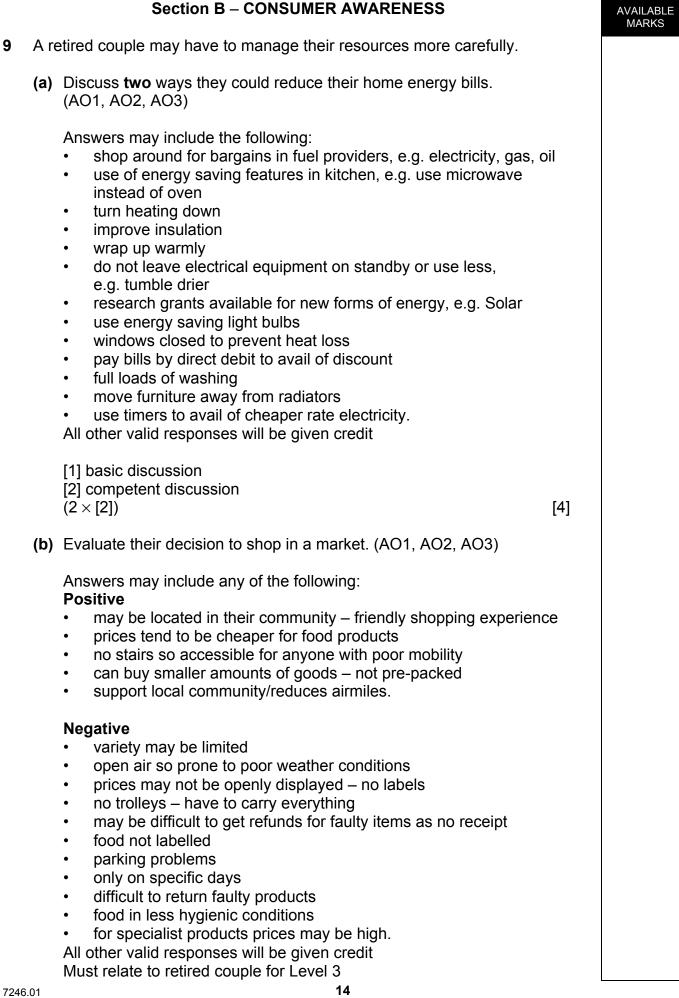
AVAILABLE MARKS

Section A – DIET AND HEALTH	AVAILABLE MARKS
<ul> <li>Level 3 ([7]–[9])</li> <li>Overall impression: highly competent <ul> <li>identifies and comments on the key points relevant to the question</li> <li>a highly competent description applied accurately within the context of the question</li> <li>quality of written communication is highly competent.</li> </ul> </li> </ul>	
(1 × [9]) [9]	9
Total for Section A	61

		Section B – CONSUMER AWARENESS		AVAILABLE MARKS
7	(a)	Explain <b>two</b> difficulties for a 21-year-old foreign student, living in Northern Ireland, who wants to return a faulty laptop that was recentl bought here. (AO1, AO2)	У	
		<ul> <li>Answers may address two of the following barriers:</li> <li>may not have confidence to return it to the shop</li> <li>concerns may not be taken seriously by shop staff</li> <li>English may not be first language – may hinder communication</li> <li>may not understand rights – may have problems taking it further</li> <li>cultural differences in consumer behaviour</li> <li>may not be aware of consumer rights</li> <li>consumer law is difficult to understand</li> <li>as a student, may not have much money to take case further if necessary</li> <li>may not have much time if at college/university</li> <li>may be unaware of sources of advice, e.g. Citizens Advice Centre</li> <li>All other valid responses will be given credit</li> </ul>		
		[1] basic explanation [2] competent explanation $(2 \times [2])$	[4]	
	(b)	Explain how the Sale and Supply of Goods Act applies to this situation. (AO1, AO2)		
		<ul> <li>Answers should include the following:</li> <li>goods are not 'of satisfactory quality' – the laptop is not working as it should</li> <li>not 'fit for purpose' – designed to be switched on and used as laptop</li> <li>the law gives the student the right to take the matter further, i.e. provide repair/replace/refund</li> <li>If question is misunderstood, i.e. refers to organisation rather than law = [0].</li> <li>All other valid responses will be given credit</li> </ul>		
		[1] basic explanation [2] competent explanation $(1 \times [2])$	[2]	

	Section B – CONSUMER AWARENESS		AVAILABLE MARKS
(c)	Describe <b>two</b> ways the Trading Standards Consumerline Service ca support this student. (AO1, AO2)	n	
	<ul> <li>Answers should include any two of the following points:</li> <li>offers advice through website and telephone helpline</li> <li>consumerline advisors will give advice on what to do re: the fault laptop</li> <li>translation service offered by appointment</li> <li>leaflets on how to complain are available in a range of language</li> <li>can make contact and complete complaint form online</li> <li>provide sample complaint forms online to download</li> <li>they will help to write letters</li> <li>they do not prosecute</li> <li>in exceptional circumstances: <ul> <li>will meet consumers</li> <li>will contact traders</li> <li>will pass onto Trading Standards officers.</li> </ul> </li> </ul>		
	[1] basic description [2] competent description $(2 \times [2])$	[4]	10
8 (a)	Write down <b>two</b> examples of 'income' for a family. (AO1)		
	<ul> <li>Answers could include two of the following:</li> <li>salary and wages</li> <li>benefits</li> <li>pension</li> <li>gift from family/friends</li> <li>selling own goods to friends or through internet</li> <li>inheritance</li> <li>interest from savings</li> <li>windfall.</li> </ul>		
	(2 × [1])	[2]	
(b)	<ul> <li>Describe the difference between 'needs' and 'wants' when planning family budget. (AO1, AO2)</li> <li>Answers should address some of the following points: <ul> <li>'needs' are priorities/essentials for life, e.g. clothes, food, heat, shelter, protection, education</li> <li>'wants' are additional things that improve the quality of life, e.g. fashion, holidays, eating out.</li> </ul> </li> <li>Must show the necessity of planning for needs before wants/prioritisin within the family budget</li> <li>All other valid responses will be given credit</li> </ul>		
	[1] basic description [2] competent description $(1 \times [2])$	[2]	
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	Section B – CONSUMER AWARENESS	AVAILABLE MARKS
(c)	'Adolescents should be taught to budget their money from an early age.' Discuss this viewpoint. (AO1, AO2, AO3)	
	<ul> <li>Answers may include any of the following points:</li> <li>teaches financial responsibility – develops good habits</li> <li>helps them appreciate how much everything costs</li> <li>helps them examine their spending and prioritise</li> <li>encourages saving</li> <li>helps relieve pressure on parents to provide everything.</li> <li>might be seen to inhibit a child's enjoyment of life</li> <li>gives them financial concerns too early.</li> <li>Must relate to adolescents to access Level 3</li> <li>All other valid responses will be given credit</li> </ul>	
	<ul> <li>Level 1 ([1]–[2])</li> <li>Overall impression: basic</li> <li>identifies and comments on a few obvious points relevant to the guestion</li> </ul>	
	<ul> <li>a limited discussion applied in simple terms to the question.</li> </ul>	
	<ul> <li>Level 2 ([3]–[4]) Overall impression: competent <ul> <li>identifies and comments on some key points relevant to the question</li> <li>a competent discussion applied accurately to the question.</li> </ul> </li> <li>Level 3 ([5]–[6]) Overall impression: highly competent <ul> <li>identifies and comments on the key points relevant to the question</li> <li>a highly competent discussion applied accurately within the context of the question.</li> </ul> </li> </ul>	
	(1 × [6]) [6]	10



	Section B – CONSUMER AWARENESS	AVAILABLE MARKS
	<ul> <li>Level 1 ([1]–[2])</li> <li>Overall impression: basic</li> <li>identifies and comments on a few obvious points relevant to the question</li> <li>a limited evaluation applied in simple terms to the question.</li> </ul>	
	<ul> <li>Level 2 ([3]–[4]) Overall impression: competent <ul> <li>identifies and comments on some key points relevant to the question</li> <li>a competent evaluation applied accurately to the question.</li> </ul> Level 3 ([5]–[6]) Overall impression: highly competent <ul> <li>identifies and comments on the key points relevant to the question</li> <li>a highly competent evaluation applied accurately within the context of the question.</li> </ul></li></ul>	
	N.B. positive and negative comments must be included to be awarded full marks	
	(1 × [6]) [6]	10
10	Discuss <b>three</b> factors which may influence a person when buying jeans. (AO1, AO2, AO3)	
	Answers may address some of the following points:	
	<ul> <li>Economic</li> <li>price – may not want to spend too much – could buy something else as well</li> <li>could take advantage of any special offers, discount.</li> </ul>	
	<ul> <li>Personal</li> <li>appearance – colour, texture, design</li> <li>likes and dislikes – personal preference</li> <li>brand/store loyalty</li> <li>need or desire.</li> </ul>	
	<ul> <li>Environmental</li> <li>country of manufacture</li> <li>materials used for jeans.</li> </ul>	
	<ul> <li>Psychological</li> <li>may spend more if feeling down to cheer self up, 'retail therapy'</li> <li>may spend more to celebrate if in good mood.</li> </ul>	

Section B – CONSUMER AWARENESS	AVAILABLE MARKS
<ul> <li>Social</li> <li>influence of friends – peer pressure</li> <li>influence of family – life long habits</li> <li>family/friends' experience of this outlet.</li> </ul>	
All other valid points will be given credit	
[0] is awarded for a response not worthy of credit	
<ul> <li>Level 1 ([1]–[3])</li> <li>Overall impression: basic</li> <li>identifies and comments on a few obvious points relevant to the question</li> <li>a limited discussion applied in simple terms to the question</li> <li>quality of written communication is basic.</li> </ul>	
<ul> <li>Level 2 ([4]–[6])</li> <li>Overall impression: competent</li> <li>identifies and comments on some key points relevant to the question</li> <li>a competent discussion applied accurately to the question</li> <li>quality of written communication is competent.</li> </ul>	
<ul> <li>Level 3 ([7]–[9])</li> <li>Overall impression: highly competent</li> <li>identifies and comments on the key points relevant to the question</li> <li>a highly competent discussion applied accurately within the context of the question</li> <li>quality of written communication is highly competent.</li> <li>Must discuss three factors to access Level 3.</li> </ul>	
(1 × [9])	9
Section B	39
Total	100