Question Number	Answer	Acceptable answers	Mark
1(a)(i)	substitution (1) 4.8 – 2.6 = 2.2 (%)		
	evaluation (1) 2.2 x 600 000 = 1320 000	give full marks for correct answer, no working	(2)

Question Number	Answer	Acceptable answers	Mark
1(a)(ii)	 Any two of the following points (increase in people who are) overweight / have a high BMI / are obese (1) (increased number of people) who do not take enough exercise (1) 		
	 increased calorie intake (1) increase in elderly population (1) 	(Increased number of people) who eat too much / eat the wrong types of food / eat too much fat / sugar / carbohydrates	(2)

Question Number	Answer	Acceptable answers	Mark
1(b)	An explanation including two of the following points • diet to lose weight (1) • reduce the amount of carbohydrates / glucose (1) • take more exercise so reduce blood glucose levels (1)	accept sugar for glucose	(2)

Question Number		Indicative Content	Mark	
QWC	*1(c)	An explanation linking some of the following points		
		When blood glucose is high		
		insulin is released from the pancreas		
		the insulin converts the excess glucose		
		into glycogen		
		which is stored in the liver		
		blood glucose levels are reduced		
		When blood glucose levels are low		
		glucagon is released from the pancreas		
		the glucagon coverts glycogen		
		from the liver		
		into glucose		
		blood glucose levels are raised		
		This is a homeostatic mechanism which maintains the correct glucose levels in the bloodstream	(6)	
Level	0	No rewardable content		
1	1 - 2	 a limited explanation of blood glucose regulation including the role of hormones, specific hormones do not need to be mentioned the answer communicates ideas using simple language and uses limited scientific terminology spelling, punctuation and grammar are used with limited accuracy 		
2	3 - 4	 a simple explanation of blood glucose regulation including the role of insulin or glucagon and some of the body organs involved the answer communicates ideas showing some evidence of clarity and organisation and uses scientific terminology appropriately spelling, punctuation and grammar are used with some accuracy 		
3	5 - 6	 a detailed explanation of blood glucose regulation including the role of the liver and pancreas and the methods of reducing and raising blood glucose concentrations the answer communicates ideas clearly and coherently uses a range of scientific terminology accurately spelling, punctuation and grammar are used with few errors 		