

NCFE CACHE Technical Level 3 Extended Diploma in Health and Social Care (601/8435/8)

January 2020

Assessment code: HSCSAE

Mark Scheme

All the material in this publication is © NCFE.

This mark scheme has been written by the Assessment Writer and refined, alongside the relevant questions, by a panel of subject experts through the external assessment writing process and at standardisation meetings.

The purpose of this mark scheme is to give you:

- examples and criteria of the types of response expected from a learner
- information on how individual marks are to be awarded
- the allocated assessment objective(s) and total mark for each question.

Marking guidelines

General guidelines

You must apply the following marking guidelines to all marking undertaken throughout the marking period. This is to ensure fairness to all learners, who must receive the same treatment. You must mark the first learner in exactly the same way as you mark the last.

- The mark scheme must be referred to throughout the marking period and applied consistently. Do not change your approach to marking once you have been standardised.
- Reward learners positively giving credit for what they have shown, rather than what they might have omitted.
- Utilise the whole mark range and always award full marks when the response merits them.
- Be prepared to award zero marks if the learner's response has no creditworthy material.
- Do not credit irrelevant material that does not answer the question, no matter how impressive the response might be.
- The marks awarded for each response should be clearly and legibly recorded in the grid on the front of the question paper.
- If you are in any doubt about the application of the mark scheme, you must consult with your Team Leader or the Chief Examiner.

Guidelines for using extended response marking grids

Extended response marking grids have been designed to award a learner's response holistically and should follow a best-fit approach. The grids are broken down into levels, with each level having an associated descriptor indicating the performance at that level. You should determine the level before determining the mark.

When determining a level, you should use a bottom up approach. If the response meets all the descriptors in the lowest level, you should move to the next one, and so on, until the response matches the level descriptor. Remember to look at the overall quality of the response and reward learners positively, rather than focussing on small omissions. If the response covers aspects at different levels, you should use a best-fit approach at this stage, and use the available marks within the level to credit the response appropriately.

When determining a mark, your decision should be based on the quality of the response in relation to the descriptors. Standardisation materials, marked by the Chief Examiner, will help you with determining a mark. You will be able to use exemplar learner responses to compare to live responses, to decide if it is the same, better or worse.

You are reminded that the indicative content provided under the marking grid is there as a guide, and therefore you must credit any other suitable responses a learner may produce. It is not a requirement either, that learners must cover all of the indicative content to be awarded full marks.

Assessment objectives

This unit requires learners to:

AO1	Recall of knowledge and understanding				
AO2	Application of knowledge and understanding				
AO3	Analysis to demonstrate knowledge of concepts and theories				

NCFE CACHE Technical Level 3 Extended Diploma in Health and Social Care (601/8435/8) – January 2020 Series – Mark Scheme

Qu	Mark scheme	Total marks
1 (a)	Weight is one measurement that is required to calculate Body Mass Index (BMI).	1 AO1=1
	Name the other measurement required to calculate BMI.	
	Award one (1) mark for:	
	Height (1).	

1 (b)	It is essent	tial to get consent before taking physiological	4
	measurem		AO2=4
	Explain ho	w a practitioner would gain informed consent.	
	Award up to	o four (4) marks for an explanation of the procedure:	
	4 marks	The explanation is detailed and accurate and shows clear understanding of the procedure.	
	3 marks	The explanation is appropriate and accurate and shows understanding of the procedure.	
	2 marks	The explanation is mostly appropriate showing some understanding of the procedure.	
	1 mark	The explanation is limited and lacks understanding of the procedure.	
0 marks No creditworthy mat		No creditworthy material.	
	 give the procedule give the options 	e service user adequate information regarding the ure e service user adequate opportunity to consider all	
	 respond 	d to the service user's questions	
	 obtain t 	he service user's agreement to the procedure	
	 continu continu 	e to provide information during the procedure to ensure ing consent.	
	Follow	policies and procedures	

Analyse	alyse how die	et may affect changes in Body Mass Index	12
Bivii).	11).		AO1=2
Level	vel Marks	Description	AO2=5
3	9–12	A wide range of relevant knowledge and understanding of how diet may affect changes in Body Mass Index is shown, which is accurate and detailed. Application of knowledge is appropriate and accurate and shows clear understanding of	AO3=5
		how diet may affect changes in Body Mass Index.	
		Analysis to demonstrate understanding of how diet may affect changes in Body Mass Index is detailed and highly effective, with reasoned judgements related to the maintenance of body temperature made. Clear links are made.	
2	5–8	A wide range of relevant knowledge and understanding of how diet may affect changes in Body Mass Index is shown, which is mostly accurate and detailed.	
		Application of knowledge is mostly appropriate, showing some clear understanding of how diet may affect changes in Body Mass Index. There may be a few errors.	
		Analysis to demonstrate understanding of how diet may affect changes in Body Mass Index is effective and mostly relevant, with simplistic judgements related to the maintenance of body temperature made. Some clear links are made.	

 A limited range of relevant knowledge and understanding of how diet may affect changes in Body Mass Index is shown, but is often fragmented. Application of knowledge is limited and may show a lack of understanding of how diet may affect changes in Body Mass Index. There may be a number of errors. Analysis to demonstrate understanding of how diet may affect changes in Body Mass Index. There may be a number of errors. Analysis to demonstrate understanding of how diet may affect changes in Body Mass Index lacks detail and may have limited effectiveness and relevance to the maintenance of body temperature. Links may be made but are often inappropriate. No creditworthy material Indicative content Body Mass Index (BMI) measures the relationship between weight and height BMI is calculated as your weight (in kilograms) divided by th square of your height (in metres) or BMI = Kg/M² The range of BMI is as follows: less than 18.5 = Underweight between 18.5–24.9 = Healthy Weight between 25–29.9 = Overweight over 30 = Obese. Poor diet can affect the weight of an individual, resulting in it either going up or going down If an individual eats food that contains too much sugar, they can gain weight. This will increase their BMI 	 A limited range of relevant knowledge and understanding of how diet may affect changes in Body Mass Index is shown, but is often fragmented. Application of knowledge is limited and may show a lack of understanding of how diet may affect changes in Body Mass Index. There may be a number of errors. Analysis to demonstrate understanding of how diet may affect changes in Body Mass Index. There may be a number of errors. Analysis to demonstrate understanding of how diet may affect changes in Body Mass Index. There may be a number of errors. Analysis to demonstrate understanding of how diet may affect changes in Body Mass Index lacks detail and may have limited effectiveness and relevance to the maintenance of body temperature. Links may be made but are often inappropriate. No creditworthy material
understanding of how diet may affect changes in Body Mass Index is shown, but is often fragmented. Application of knowledge is limited and may show a lack of understanding of how diet may affect changes in Body Mass Index. There may be a number of errors. Analysis to demonstrate understanding of how diet may affect changes in Body Mass Index lacks detail and may have limited effectiveness and relevance to the maintenance of body temperature. Links may be made but are often inappropriate. 0 No creditworthy material Indicative content Body Mass Index (BMI) measures the relationship between weight and height BMI is calculated as your weight (in kilograms) divided by th square of your height (in metres) or BMI = Kg/M ² The range of BMI is as follows: less than 18.5 = Underweight between 18.5–24.9 = Healthy Weight over 30 = Obese. Poor diet can affect the weight of an individual, resulting in it either going up or going down If an individual eats food that contains too much sugar, they can gain weight. This will increase their BMI	 understanding of how diet may affect changes in Body Mass Index is shown, but is often fragmented. Application of knowledge is limited and may show a lack of understanding of how diet may affect changes in Body Mass Index. There may be a number of errors. Analysis to demonstrate understanding of how diet may affect changes in Body Mass Index lacks detail and may have limited effectiveness and relevance to the maintenance of body temperature. Links may be made but are often inappropriate. No creditworthy material Body Mass Index (BMI) measures the relationship betweer weight and height BMI is calculated as your weight (in kilograms) divided by t square of your height (in metres) or BMI = Kg/M² The range of BMI is as follows: less than 18.5 = Underweight between 18.5–24.9 = Healthy Weight between 25–29.9 = Overweight over 30 = Obese. Poor diet can affect the weight of an individual, resulting in either going up or going down If an individual eats food that contains too much sugar, the can gain weight. This will increase their BMI If an individual excessively consumes food, they can gai weight. This will increase their BMI An increase in weight will increase an individual's BMI, as for the weight of the individual's BMI, as for the weight will increase their BMI
changes in Body Mass Index is shown, but is often fragmented. Application of knowledge is limited and may show a lack of understanding of how diet may affect changes in Body Mass Index. There may be a number of errors. Analysis to demonstrate understanding of how diet may affect changes in Body Mass Index lacks detail and may have limited effectiveness and relevance to the maintenance of body temperature. Links may be made but are often inappropriate. 0 No creditworthy material Indicative content • Body Mass Index (BMI) measures the relationship between weight and height BMI is calculated as your weight (in kilograms) divided by th square of your height (in metres) or BMI = Kg/M ² • The range of BMI is as follows: - less than 18.5 = Underweight - between 18.5–24.9 = Healthy Weight - between 25–29.9 = Overweight - over 30 = Obese. • Poor diet can affect the weight of an individual, resulting in it either going up or going down • If an individual eats food that contains too much sugar, they can gain weight. This will increase their BMI	 changes in Body Mass Index is shown, but is often fragmented. Application of knowledge is limited and may show a lack of understanding of how diet may affect changes in Body Mass Index. There may be a number of errors. Analysis to demonstrate understanding of how diet may affect changes in Body Mass Index lacks detail and may have limited effectiveness and relevance to the maintenance of body temperature. Links may be made but are often inappropriate. No creditworthy material Body Mass Index (BMI) measures the relationship betweer weight and height BMI is calculated as your weight (in kilograms) divided by t square of your height (in metres) or BMI = Kg/M² The range of BMI is as follows: less than 18.5 = Underweight between 18.5–24.9 = Healthy Weight between 25–29.9 = Overweight over 30 = Obese. Poor diet can affect the weight of an individual, resulting in either going up or going down If an individual eats food that contains too much sugar, the can gain weight. This will increase their BMI If an individual excessively consumes food, they can gai weight. This will increase their BMI An increase in weight will increase an individual's BMI, as for the total and the form of the point of the point
is often fragmented. Application of knowledge is limited and may show a lack of understanding of how diet may affect changes in Body Mass Index. There may be a number of errors. Analysis to demonstrate understanding of how diet may affect changes in Body Mass Index lacks detail and may have limited effectiveness and relevance to the maintenance of body temperature. Links may be made but are often inappropriate. 0 No creditworthy material Indicative content • Body Mass Index (BMI) measures the relationship between weight and height BMI is calculated as your weight (in kilograms) divided by th square of your height (in metres) or BMI = Kg/M² • The range of BMI is as follows: • less than 18.5 = Underweight • between 18.5–24.9 = Healthy Weight • over 30 = Obese. • Poor diet can affect the weight of an individual, resulting in it either going up or going down • If an individual eats food that contains too much sugar, they can gain weight. This will increase their BMI	 is often fragmented. Application of knowledge is limited and may show a lack of understanding of how diet may affect changes in Body Mass Index. There may be a number of errors. Analysis to demonstrate understanding of how diet may affect changes in Body Mass Index lacks detail and may have limited effectiveness and relevance to the maintenance of body temperature. Links may be made but are often inappropriate. 0 No creditworthy material dicative content Body Mass Index (BMI) measures the relationship betweer weight and height BMI is calculated as your weight (in kilograms) divided by t square of your height (in metres) or BMI = Kg/M² The range of BMI is as follows: less than 18.5 = Underweight between 18.5–24.9 = Healthy Weight between 25–29.9 = Overweight over 30 = Obese. Poor diet can affect the weight of an individual, resulting in either going up or going down If an individual eats food that contains too much sugar, the can gain weight. This will increase their BMI If an individual excessively consumes food, they can gain weight. This will increase their BMI An increase in weight will increase an individual's BMI, as four the submert and the submit will increase an individual's BMI, as four the submit will increase their BMI
Application of knowledge is limited and may show a lack of understanding of how diet may affect changes in Body Mass Index. There may be a number of errors. Analysis to demonstrate understanding of how diet may affect changes in Body Mass Index lacks detail and may have limited effectiveness and relevance to the maintenance of body temperature. Links may be made but are often inappropriate. 0 No creditworthy material Indicative content • No creditworthy material Indicative content • Body Mass Index (BMI) measures the relationship between weight and height • BMI is calculated as your weight (in kilograms) divided by th square of your height (in metres) or BMI = Kg/M² • The range of BMI is as follows: • less than 18.5 = Underweight • between 18.5–24.9 = Healthy Weight • between 25–29.9 = Overweight • over 30 = Obese. • Poor diet can affect the weight of an individual, resulting in it either going up or going down • If an individual eats food that contains too much sugar, they can gain weight. This will increase their BMI	 Application of knowledge is limited and may show a lack of understanding of how diet may affect changes in Body Mass Index. There may be a number of errors. Analysis to demonstrate understanding of how diet may affect changes in Body Mass Index lacks detail and may have limited effectiveness and relevance to the maintenance of body temperature. Links may be made but are often inappropriate. 0 No creditworthy material dicative content Body Mass Index (BMI) measures the relationship betweer weight and height BMI is calculated as your weight (in kilograms) divided by t square of your height (in metres) or BMI = Kg/M² The range of BMI is as follows: less than 18.5 = Underweight between 18.5–24.9 = Healthy Weight between 25–29.9 = Overweight over 30 = Obese. Poor diet can affect the weight of an individual, resulting in either going up or going down If an individual eats food that contains too much sugar, the can gain weight. This will increase their BMI If an individual excessively consumes food, they can gain weight. This will increase their BMI An increase in weight will increase an individual's BMI, as for the weight will increase their BMI
Application of knowledge is limited and may show a lack of understanding of how diet may affect changes in Body Mass Index. There may be a number of errors. Analysis to demonstrate understanding of how diet may affect changes in Body Mass Index lacks detail and may have limited effectiveness and relevance to the maintenance of body temperature. Links may be made but are often inappropriate. 0 No creditworthy material Indicative content • • Body Mass Index (BMI) measures the relationship between weight and height • BMI is calculated as your weight (in kilograms) divided by th square of your height (in metres) or BMI = Kg/M ² • The range of BMI is as follows: • less than 18.5 = Underweight • between 18.5–24.9 = Healthy Weight • between 25–29.9 = Overweight • over 30 = Obese. • Poor diet can affect the weight of an individual, resulting in it either going up or going down • If an individual eats food that contains too much sugar, they can gain weight. This will increase their BMI	 Application of knowledge is limited and may show a lack of understanding of how diet may affect changes in Body Mass Index. There may be a number of errors. Analysis to demonstrate understanding of how diet may affect changes in Body Mass Index lacks detail and may have limited effectiveness and relevance to the maintenance of body temperature. Links may be made but are often inappropriate. No creditworthy material d No creditworthy material e Body Mass Index (BMI) measures the relationship betweer weight and height e BMI is calculated as your weight (in kilograms) divided by t square of your height (in metres) or BMI = Kg/M ² e The range of BMI is as follows: less than 18.5 = Underweight between 18.5–24.9 = Healthy Weight between 18.5–24.9 = Healthy Weight over 30 = Obese. Poor diet can affect the weight of an individual, resulting in either going up or going down if an individual eats food that contains too much sugar, the can gain weight. This will increase their BMI if an individual eats food that contains high fat, they can gaweight. This will increase their BMI f an individual excessively consumes food, they can gain weight. This will increase their BMI f an individual excessively consumes food, they can gain weight. This will increase their BMI f an individual excessively consumes food, they can gain weight. This will increase their BMI f an individual excessively consumes food, they can gain weight. This will increase their BMI f an individual excessively consumes food, they can gain weight. This will increase their BMI f an individual excessively consumes food, they can gain weight. This will increase their BMI
 show a lack of understanding of how diet may affect changes in Body Mass Index. There may be a number of errors. Analysis to demonstrate understanding of how diet may affect changes in Body Mass Index lacks detail and may have limited effectiveness and relevance to the maintenance of body temperature. Links may be made but are often inappropriate. No creditworthy material Indicative content Body Mass Index (BMI) measures the relationship between weight and height BMI is calculated as your weight (in kilograms) divided by th square of your height (in metres) or BMI = Kg/M² The range of BMI is as follows: less than 18.5 = Underweight between 18.5–24.9 = Healthy Weight between 25–29.9 = Overweight over 30 = Obese. Poor diet can affect the weight of an individual, resulting in if either going up or going down If an individual eats food that contains too much sugar, they can gain weight. This will increase their BMI If an individual eats food that contains high fat, they can gain 	 show a lack of understanding of how diet may affect changes in Body Mass Index. There may be a number of errors. Analysis to demonstrate understanding of how diet may affect changes in Body Mass Index lacks detail and may have limited effectiveness and relevance to the maintenance of body temperature. Links may be made but are often inappropriate. No creditworthy material d No creditworthy material d No creditworthy material d No creditworthy material d Solution (BMI) measures the relationship between weight and height e BMI is calculated as your weight (in kilograms) divided by t square of your height (in metres) or BMI = Kg/M ² e The range of BMI is as follows: less than 18.5 = Underweight between 18.5–24.9 = Healthy Weight between 25–29.9 = Overweight over 30 = Obese. Poor diet can affect the weight of an individual, resulting in either going up or going down If an individual eats food that contains too much sugar, the can gain weight. This will increase their BMI If an individual eats food that contains high fat, they can gaweight. This will increase their BMI If an individual excessively consumes food, they can gain weight. This will increase their BMI An increase in weight will increase an individual's BMI, as four the can be added and the to the material and the to the material and the top of the can an individual weight will increase their BMI An increase in weight will increase an individual's BMI, as four the can be added and the top of the can an individual and the top of the can an individual's BMI, as four the can be added and the top of the can an individual's BMI, as four the can be added and the top of the can an individual and the can an individual's BMI, as four the can be added and the top of the can an individual and the can an individual anded the can be added and the can an individual and the can an in
may affect changes in Body Mass Index. There may be a number of errors. Analysis to demonstrate understanding of how diet may affect changes in Body Mass Index lacks detail and may have limited effectiveness and relevance to the maintenance of body temperature. Links may be made but are often inappropriate. 0 No creditworthy material Indicative content No creditworthy material Body Mass Index (BMI) measures the relationship between weight and height BMI is calculated as your weight (in kilograms) divided by th square of your height (in metres) or BMI = Kg/M ² The range of BMI is as follows: less than 18.5 = Underweight between 18.5–24.9 = Healthy Weight between 25–29.9 = Overweight over 30 = Obese. Poor diet can affect the weight of an individual, resulting in if either going up or going down If an individual eats food that contains too much sugar, they can gain weight. This will increase their BMI If an individual eats food that contains high fat, they can gain	 may affect changes in Body Mass Index. There may be a number of errors. Analysis to demonstrate understanding of how diet may affect changes in Body Mass Index lacks detail and may have limited effectiveness and relevance to the maintenance of body temperature. Links may be made but are often inappropriate. No creditworthy material d No creditworthy material d No creditworthy dutating in crease their BMI d I an
 There may be a number of errors. Analysis to demonstrate understanding of how diet may affect changes in Body Mass Index lacks detail and may have limited effectiveness and relevance to the maintenance of body temperature. Links may be made but are often inappropriate. 0 No creditworthy material Indicative content Body Mass Index (BMI) measures the relationship between weight and height BMI is calculated as your weight (in kilograms) divided by th square of your height (in metres) or BMI = Kg/M² The range of BMI is as follows: less than 18.5 = Underweight between 18.5–24.9 = Healthy Weight over 30 = Obese. Poor diet can affect the weight of an individual, resulting in if either going up or going down If an individual eats food that contains too much sugar, they can gain weight. This will increase their BMI If an individual eats food that contains high fat, they can gain 	 There may be a number of errors. Analysis to demonstrate understanding of how diet may affect changes in Body Mass Index lacks detail and may have limited effectiveness and relevance to the maintenance of body temperature. Links may be made but are often inappropriate. No creditworthy material d No creditworthy material d No creditworthy credit of an i
 Analysis to demonstrate understanding of how diet may affect changes in Body Mass Index lacks detail and may have limited effectiveness and relevance to the maintenance of body temperature. Links may be made but are often inappropriate. No creditworthy material Indicative content Body Mass Index (BMI) measures the relationship between weight and height BMI is calculated as your weight (in kilograms) divided by th square of your height (in metres) or BMI = Kg/M² The range of BMI is as follows: less than 18.5 = Underweight between 18.5–24.9 = Healthy Weight between 25–29.9 = Overweight over 30 = Obese. Poor diet can affect the weight of an individual, resulting in it either going up or going down If an individual eats food that contains too much sugar, they can gain weight. This will increase their BMI	 Analysis to demonstrate understanding of how diet may affect changes in Body Mass Index lacks detail and may have limited effectiveness and relevance to the maintenance of body temperature. Links may be made but are often inappropriate. No creditworthy material d No creditworthy material d No creditworthy material d No creditworthy material d BMI is calculated as your weight (in kilograms) divided by t square of your height (in metres) or BMI = Kg/M ² The range of BMI is as follows: less than 18.5 = Underweight between 18.5–24.9 = Healthy Weight between 25–29.9 = Overweight over 30 = Obese. Poor diet can affect the weight of an individual, resulting in either going up or going down If an individual eats food that contains too much sugar, the can gain weight. This will increase their BMI If an individual eats food that contains high fat, they can gai weight. This will increase their BMI An increase in weight will increase an individual's BMI, as follows:
 Analysis to demonstrate understanding of how diet may affect changes in Body Mass Index lacks detail and may have limited effectiveness and relevance to the maintenance of body temperature. Links may be made but are often inappropriate. No creditworthy material Indicative content Body Mass Index (BMI) measures the relationship between weight and height BMI is calculated as your weight (in kilograms) divided by th square of your height (in metres) or BMI = Kg/M² The range of BMI is as follows: less than 18.5 = Underweight between 25–29.9 = Overweight over 30 = Obese. Poor diet can affect the weight of an individual, resulting in it either going up or going down If an individual eats food that contains too much sugar, they can gain weight. This will increase their BMI 	 Analysis to demonstrate understanding of how diet may affect changes in Body Mass Index lacks detail and may have limited effectiveness and relevance to the maintenance of body temperature. Links may be made but are often inappropriate. 0 No creditworthy material Body Mass Index (BMI) measures the relationship betweer weight and height BMI is calculated as your weight (in kilograms) divided by t square of your height (in metres) or BMI = Kg/M² The range of BMI is as follows: less than 18.5 = Underweight between 18.5–24.9 = Healthy Weight between 25–29.9 = Overweight over 30 = Obese. Poor diet can affect the weight of an individual, resulting in either going up or going down If an individual eats food that contains too much sugar, the can gain weight. This will increase their BMI If an individual excessively consumes food, they can gain weight. This will increase their BMI An increase in weight will increase an individual's BMI, as formal weight. This will increase their BMI
 how diet may affect changes in Body Mass Index lacks detail and may have limited effectiveness and relevance to the maintenance of body temperature. Links may be made but are often inappropriate. 0 No creditworthy material Indicative content Body Mass Index (BMI) measures the relationship between weight and height BMI is calculated as your weight (in kilograms) divided by th square of your height (in metres) or BMI = Kg/M² The range of BMI is as follows: less than 18.5 = Underweight between 18.5–24.9 = Healthy Weight between 25–29.9 = Overweight over 30 = Obese. Poor diet can affect the weight of an individual, resulting in it either going up or going down If an individual eats food that contains too much sugar, they can gain weight. This will increase their BMI If an individual eats food that contains high fat, they can gain 	 how diet may affect changes in Body Mass Index lacks detail and may have limited effectiveness and relevance to the maintenance of body temperature. Links may be made but are often inappropriate. 0 No creditworthy material dicative content Body Mass Index (BMI) measures the relationship betweer weight and height BMI is calculated as your weight (in kilograms) divided by t square of your height (in metres) or BMI = Kg/M² The range of BMI is as follows: less than 18.5 = Underweight between 18.5-24.9 = Healthy Weight between 25-29.9 = Overweight over 30 = Obese. Poor diet can affect the weight of an individual, resulting in either going up or going down If an individual eats food that contains too much sugar, the can gain weight. This will increase their BMI If an individual excessively consumes food, they can gain weight. This will increase their BMI An increase in weight will increase an individual's BMI, as formal weight. This will increase their BMI
 Index lacks detail and may have limited effectiveness and relevance to the maintenance of body temperature. Links may be made but are often inappropriate. No creditworthy material Indicative content Body Mass Index (BMI) measures the relationship between weight and height BMI is calculated as your weight (in kilograms) divided by th square of your height (in metres) or BMI = Kg/M² The range of BMI is as follows: less than 18.5 = Underweight between 18.5–24.9 = Healthy Weight between 25–29.9 = Overweight over 30 = Obese. Poor diet can affect the weight of an individual, resulting in it either going up or going down If an individual eats food that contains too much sugar, they can gain weight. This will increase their BMI If an individual eats food that contains high fat, they can gain 	 Index lacks detail and may have limited effectiveness and relevance to the maintenance of body temperature. Links may be made but are often inappropriate. No creditworthy material dicative content Body Mass Index (BMI) measures the relationship betweer weight and height BMI is calculated as your weight (in kilograms) divided by t square of your height (in metres) or BMI = Kg/M² The range of BMI is as follows: less than 18.5 = Underweight between 18.5–24.9 = Healthy Weight between 25–29.9 = Overweight over 30 = Obese. Poor diet can affect the weight of an individual, resulting in either going up or going down If an individual eats food that contains too much sugar, the can gain weight. This will increase their BMI If an individual excessively consumes food, they can gain weight. This will increase their BMI An increase in weight will increase an individual's BMI, as formal weight. This will increase their BMI
 effectiveness and relevance to the maintenance of body temperature. Links may be made but are often inappropriate. 0 No creditworthy material ndicative content Body Mass Index (BMI) measures the relationship between weight and height BMI is calculated as your weight (in kilograms) divided by th square of your height (in metres) or BMI = Kg/M² The range of BMI is as follows: less than 18.5 = Underweight between 18.5–24.9 = Healthy Weight between 25–29.9 = Overweight over 30 = Obese. Poor diet can affect the weight of an individual, resulting in it either going up or going down If an individual eats food that contains too much sugar, they can gain weight. This will increase their BMI If an individual eats food that contains high fat, they can gain 	 effectiveness and relevance to the maintenance of body temperature. Links may be made but are often inappropriate. 0 No creditworthy material dicative content Body Mass Index (BMI) measures the relationship betweer weight and height BMI is calculated as your weight (in kilograms) divided by t square of your height (in metres) or BMI = Kg/M² The range of BMI is as follows: less than 18.5 = Underweight between 18.5–24.9 = Healthy Weight between 25–29.9 = Overweight over 30 = Obese. Poor diet can affect the weight of an individual, resulting in either going up or going down If an individual eats food that contains too much sugar, the can gain weight. This will increase their BMI If an individual excessively consumes food, they can gain weight. This will increase their BMI An increase in weight will increase an individual's BMI, as for the tribute between the total weight and the total weight. This will increase their BMI
maintenance of body temperature. Links may be made but are often inappropriate. 0 No creditworthy material ndicative content • Body Mass Index (BMI) measures the relationship between weight and height • BMI is calculated as your weight (in kilograms) divided by th square of your height (in metres) or BMI = Kg/M ² • The range of BMI is as follows: - less than 18.5 = Underweight - between 18.5–24.9 = Healthy Weight - over 30 = Obese. • Poor diet can affect the weight of an individual, resulting in it either going up or going down • If an individual eats food that contains too much sugar, they can gain weight. This will increase their BMI • If an individual eats food that contains high fat, they can gain	 maintenance of body temperature. Links may be made but are often inappropriate. No creditworthy material Body Mass Index (BMI) measures the relationship betweer weight and height BMI is calculated as your weight (in kilograms) divided by t square of your height (in metres) or BMI = Kg/M² The range of BMI is as follows: less than 18.5 = Underweight between 18.5–24.9 = Healthy Weight between 25–29.9 = Overweight over 30 = Obese. Poor diet can affect the weight of an individual, resulting in either going up or going down If an individual eats food that contains too much sugar, the can gain weight. This will increase their BMI If an individual excessively consumes food, they can gain weight. This will increase their BMI An increase in weight will increase an individual's BMI, as for the substructure of the weight is provided by the between an individual as food they consume food, they can gain
 may be made but are often inappropriate. No creditworthy material No creditworthy material 	 may be made but are often inappropriate. No creditworthy material dicative content Body Mass Index (BMI) measures the relationship betweer weight and height BMI is calculated as your weight (in kilograms) divided by t square of your height (in metres) or BMI = Kg/M² The range of BMI is as follows: less than 18.5 = Underweight between 18.5–24.9 = Healthy Weight between 25–29.9 = Overweight over 30 = Obese. Poor diet can affect the weight of an individual, resulting in either going up or going down If an individual eats food that contains too much sugar, the can gain weight. This will increase their BMI If an individual excessively consumes food, they can gain weight. This will increase their BMI An increase in weight will increase their BMI
 No creditworthy material ndicative content Body Mass Index (BMI) measures the relationship between weight and height BMI is calculated as your weight (in kilograms) divided by th square of your height (in metres) or BMI = Kg/M² The range of BMI is as follows: less than 18.5 = Underweight between 18.5–24.9 = Healthy Weight between 25–29.9 = Overweight over 30 = Obese. Poor diet can affect the weight of an individual, resulting in it either going up or going down If an individual eats food that contains too much sugar, they can gain weight. This will increase their BMI If an individual eats food that contains high fat, they can gain 	 No creditworthy material dicative content Body Mass Index (BMI) measures the relationship betweer weight and height BMI is calculated as your weight (in kilograms) divided by t square of your height (in metres) or BMI = Kg/M² The range of BMI is as follows: less than 18.5 = Underweight between 18.5–24.9 = Healthy Weight between 25–29.9 = Overweight over 30 = Obese. Poor diet can affect the weight of an individual, resulting in either going up or going down If an individual eats food that contains too much sugar, the can gain weight. This will increase their BMI If an individual excessively consumes food, they can gain weight. This will increase their BMI An increase in weight will increase an individual's BMI, as for the transition of the the the the text back the transition of the text back the te
 ndicative content Body Mass Index (BMI) measures the relationship between weight and height BMI is calculated as your weight (in kilograms) divided by th square of your height (in metres) or BMI = Kg/M² The range of BMI is as follows: less than 18.5 = Underweight between 18.5–24.9 = Healthy Weight between 25–29.9 = Overweight over 30 = Obese. Poor diet can affect the weight of an individual, resulting in it either going up or going down If an individual eats food that contains too much sugar, they can gain weight. This will increase their BMI 	 dicative content Body Mass Index (BMI) measures the relationship betweer weight and height BMI is calculated as your weight (in kilograms) divided by t square of your height (in metres) or BMI = Kg/M² The range of BMI is as follows: less than 18.5 = Underweight between 18.5–24.9 = Healthy Weight between 25–29.9 = Overweight over 30 = Obese. Poor diet can affect the weight of an individual, resulting in either going up or going down If an individual eats food that contains too much sugar, the can gain weight. This will increase their BMI If an individual excessively consumes food, they can gain weight. This will increase their BMI An increase in weight will increase an individual's BMI, as for the provided of the pr
weight. This will increase their BMI	 If an individual excessively consumes food, they can gain weight. This will increase their BMI An increase in weight will increase an individual's BMI, as to be a substant of the second s
 If an individual excessively consumes food, they can gain weight. This will increase their BMI 	An increase in weight will increase an individual's BMI, as it
 An increase in weight will increase an individual's BMI, as the relationship between weight and height will change If an individual consumes insufficient food, they can lose 	 If an individual consumes insufficient food, they can lose
weight. This will reduce their BMI	weight. This will reduce their BMI
lose weight. This will reduce their BMI	lose weight. This will reduce their BMI
 weight loss will reduce an individual's BMI, as the relationship between weight and height will change. 	 weight loss will reduce an individual's BMI, as the relationship between weight and height will change.

1 (d)	Apart from diet, identify one (1) other factor that affects Body Mass Index (BMI) and explain why this factor affects BMI. Award one (1) mark for identification of a factor and up to two (2)	3 AO1=1 AO2=2
	 Age (1) – older adults tend to have more body fat than younger adults (1). An older adult may have an altered BMI via other measures, such as water retention or reduced muscle mass (1) Sex (1) – women have greater amounts of total body fat than men (1). A woman may have a different BMI from a man due to other measures, such as differing water mass or muscle mass (1) Medication (1) – some medications have a side effect which slows metabolism (1). Some medications have a side effect which speeds up metabolism (1). 	
	Accept other suitable responses.	

2 (a)	Identify the primary sex hormone in males and describe its function.	4 AO1=1
	Award one (1) mark for correct identification.Testosterone (1).	AO2=3
	Award up to three (3) marks for a correct description.	
	 Plays a key role in the development of male reproductive tissues such as testes and prostate (1) Promotes secondary sexual characteristics such as increased muscle and bone mass, and the growth of body hair (1) Involved in health and well-being, such as the prevention of osteoporosis (1) Necessary for normal sperm development (1) Attention, memory, and spatial ability are key cognitive functions affected by testosterone (1). 	
	Accept other suitable responses.	

	Marks	Description	
3	5–6	Application of knowledge is appropriate and	AU3=
		accurate and shows clear understanding of	
		the relationship between the endocrine and	
		digestive system.	
		Analysis to demonstrate understanding of	
		the relationship between the endocrine and	
		digestive system is detailed and highly	
		effective, with clearly reasoned	
<u>, </u>	2 /	Consequences. Clear links are made.	
Z	3-4	appropriate showing some clear	
		understanding of the relationship between	
		the endocrine and digestive system. There	
		may be a few errors.	
		Analysis to demonstrate understanding of	
		the relationship between the endocrine and	
		digestive system is effective and mostly	
		relevant, with simplistic consequences.	
4	4.0	Some clear links are made.	
1	1-2	show a lack of understanding of the	
		relationship between the endocrine and	
		digestive system. There may be a number of	
		errors.	
		Analysis to demonstrate understanding of	
		the relationship between the endocrine and	
		digestive system lacks detail and may have	
		limited effectiveness and relevance. Links	
	0	No creditworthy material.	
	0	No creditwortny material.	
ndicati	ive conte	nt	
• 1	ne uiges	the body	
5 - 14	t makaa a	ine body	
• II +	hat play a	role in the body's metabolism	
и • Т	The circul	tory system carries chemical signals from your	
• 1		avotem that control the aread of direction	
		system that control the speed of digestion	
		produced in the stomach, and its function is to ter	
u	แล กเราแ เ	hat the body has to be red. It increases appellie	

r		
	 Gastrin is produced in the stomach when it is stretched. It stimulates the release of gastric juice rich in pepsin and hydrochloric acid Secretin is produced in the duodenum and has the effect of stimulating the pancreas to produce alkaline secretions as 	
	 Cholecystokinin (CCK) is produced in the duodenum. It 	
	reduces appetite, slows down the emptying of the stomach and stimulates the release of bile from the gall bladder	
	• Peptide YY (PYY) is produced in the last part of the small intestine known as the ileum as well as parts of the large intestine. It plays a role in slowing down the passage of food along the gut, which increases the efficiency of digestion and	
	nutrient absorption after meal	
	 Glucagon-like peptide 1 (GLP-1) is produced in the small intestine and colon and has multiple actions including inhibition of gastric emptying and appetite as well as the stimulation of insulin release. 	
	NB Candidates may focus on one particular aspect of the relationship (e.g. glucose management by both endocrine and digestive systems) and be awarded credit.	
	Accept other suitable responses.	

2 (c)	Discus	s the end	locrine system in relation to hormonal control.	6
	Level	Marks	Description	AO2=3
	3	5–6	Application of knowledge is appropriate and accurate and shows clear understanding of the endocrine system and hormonal control.	AO3=3
			Analysis to demonstrate understanding of the endocrine system and hormonal control is detailed and highly effective, with clearly reasoned consequences. Clear links are made.	
	2	3–4	Application of knowledge is mostly appropriate, showing some clear understanding of the endocrine system and hormonal control. There may be a few errors.	
			Analysis to demonstrate understanding of the endocrine system and hormonal control is effective and mostly relevant, with simplistic consequences. Some clear links are made.	

1	1–2	Application of knowledge is limited and may show a lack of understanding of the endocrine system and hormonal control. There may be a number of errors.				
		Analysis to demonstrate understanding of the				
		endocrine system and hormonal control lacks				
		relevance. Links may be made but are often				
		inappropriate.				
	0	No creditworthy material.				
Indica	tive conte	nt				
•		rine system is made up of a network of glands				
•	Endocrine glands release hormones into the bloodstream The endeering hormones halp control mood growth and					
•	 The endocrine hormones help control mood, growth and development, the way our organs work metabolism and 					
	reproduction					
•	The hypothalamus links the endocrine system and nervous system					
•	 The hypothalamus gathers information sensed by the brain and sends it to the pituitary gland The pituitary gland is often called the 'master gland' as the 					
•	The pituita	ry gland is often called the 'master gland' as the				
	 hormones it makes control many other endocrine glands Other significant glands include the thyroid parathyroid 					
•	 Other significant glands include the thyroid, parathyroid, adrenal, pineal body, the ovaries, the testes and the pancreas 					
•	 pancreas These glands produce different types of hormones that 					
	evoke a sp organs loc	becific response in other cells, tissues and/or ated throughout the body.				
NB Ca partic award	andidates r ular hormo led credit.	may provide detailed discussion regarding ones in relation to endocrine control and be				
Ассер	Accept other suitable responses.					

2 (d)	Identify the gland located in the neck of humans and discuss	4			
	the function of the normones this gland produces.				
	Award one (1) mark for correct identification.	AO3=3			
	• Thyroid (1).				
	Award up to three (3) marks for an appropriate discussion.				
	 Thyroid hormones are thyroxine and calcitonin (1) The thyroid hormones increase the basal metabolic rate (1) 				

 The hormones increase the rate and strength of the heartbeat (1) Increase the growth rate of young people (1) Sexual function, including libido and the maintenance of a normal menstrual cycle, are influenced by thyroid hormones (1). 	
Accept other suitable responses.	

3 (a)	A)Capillaries are microscopic blood vessels in the human body.		
	Discuss the function of capillaries.		
	Award up to	o three (3) marks for an appropriate discussion.	
	3 marks	The discussion is appropriate and accurate and shows clear understanding of the function.	
	2 marks	The discussion is mostly appropriate showing some understanding of the function.	
	1 mark	The discussion is limited and lacks understanding of the function.	
	0	No creditworthy material	
	 They are the smallest blood vessels in the body 		
	 They convey blood between the arterioles and venules 		
	The capillary wall performs an important function by allowing nutrients and waste substances to pass across it. This process is called diffusion		
	 They are the site of exchange of many substances 		
	 Substances which exit the capillary include water, oxygen, and glucose 		
Substances which enter the capillary include water, carbon dioxide, uric acid, lactic acid, urea and creatinine.			
	Accept othe	er suitable responses.	
3 (b)	(b) Measuring blood pressure gives two readings. One of these readings is the systolic blood pressure.		

readings is the systeme blood pressure.	AO1=1
Name the other reading of blood pressure and explain the meaning of this reading.	AO3=3
Award one (1) mark for correct identification.	
Diastolic (1).	
Award up to three (3) marks for an accurate explanation.	
	•

 The time when the heart is in a period of relaxation and dilatation (1) 	
 The minimum arterial pressure during relaxation and dilatation of the ventricles of the heart (1) 	
 In a blood pressure reading, the diastolic pressure is the second number recorded (1) 	
 A normal diastolic blood pressure is lower than 80 (1) 	
 A reading of 90 or higher means you have high blood pressure (1). 	
Accept other suitable responses.	

3 (c)	Analyse	e the hor re.	neostatic mechanism that regulates blood	9
	P. 0000			AO1=1
	Level	Marks	Description	AO2=4
	3	7–9	A range of relevant knowledge and understanding of the homeostatic mechanism that regulates blood pressure is shown, but may be lacking in sufficient detail, with a few errors.	AO3=4
			Application of knowledge is appropriate and accurate and shows clear understanding of the homeostatic mechanism that regulates blood pressure.	
			Analysis to demonstrate understanding of the homeostatic mechanism that regulates blood pressure is detailed and highly effective, with reasoned judgements made. Clear links are made.	
	2	4–6	A range of relevant knowledge and understanding of the homeostatic mechanism that regulates blood pressure is shown, but may be lacking in sufficient detail, with a few errors.	
			Application of knowledge is mostly appropriate, showing some clear understanding of the homeostatic mechanism that regulates blood pressure. There may be a few errors.	
			Analysis to demonstrate understanding of the homeostatic mechanism that regulates blood pressure is effective and mostly relevant with simplistic judgements made. Some clear links are made.	

effectiveness and relevance. Links may be	
Indue but are offen inappropriate.	
 Indicative content The cardiovascular centre forms part of the autonomic nervous system The cardiovascular centre is located in the medulla oblongata Baroreceptors are specialised stretch receptors located within thin areas of blood vessels They send impulses to the cardiovascular centre to regulate blood pressure (BP) When blood pressure increases, the baroreceptors are stretched more tightly Parasympathetic fibres (vagus nerve) versus sympathetic response (decrease and increase of BP) Baroreceptors then initiate action potentials at a higher rate When blood pressure is controlled chemically through dilation or constriction of the blood vessels by vasodilators and vasoconstrictors Constriction or dilation of blood vessels alters resistance, increasing or decreasing blood pressure respectively Vasoconstriction results from increased concentration of calcium (Ca2+) ions within vascular smooth muscle. 	

3 (d)	Blood is made up of four (4) components.				
	Three of these are shown in the table below.				
	Complete the table below to identify the fourth component.				
	White blood cells Platelets Red blood cells				
	Award one (1) mark for:				
	 Plasma (1). 				

3 (e)	e) Describe the structure and function of the component you identified in 3 (d).	
	Award up to three (3) marks for an appropriate description.	
	 Clear, straw-coloured liquid portion of blood (1) It is the single largest component of human blood (1) Composed of 90% water (1) Involved in the transport of nutrients, hormones and proteins to where they are needed in the body Involved in clotting blood and fighting diseases (1) Normally holds the blood cells in whole blood in suspension (1). 	

4 (a)	The autonomic nervous system is comprised of two main	4
	systems. One system is the sympathetic nervous system.	AO1=1
	Identify the other system and explain its function.	AO2=3
	Award one (1) mark for correct identification.	
	 Parasympathetic (1). 	
	Award up to three (3) marks for an accurate explanation.	
	 Responsible for stimulation of 'rest and digest' or 'feed and breed' (1) 	
	 Occurs after eating (1), sexual arousal (1), salivation (1), crying (1), urination (1), digestion (1) and defecation (1) 	
	 Significant in production of erections in males (1) Prepares females for intercourse by stimulating production of vaginal fluids (1). 	
	Accept other suitable responses.	

4 (b)	Analys	Analyse the function of the spinal reflex arc.			
	Level	Marks	Description	AO2=3	
	3	5–6	Application of knowledge is appropriate and accurate and shows clear understanding of the spinal reflex arc.	AO3=3	
			Analysis to demonstrate understanding of the spinal reflex arc is detailed and highly effective, with clearly reasoned consequences. Clear links are made.		
	2	3–4	Application of knowledge is mostly appropriate, showing some clear understanding of the spinal reflex arc. There may be a few errors.		
			Analysis to demonstrate understanding of the spinal reflex arc is effective and mostly relevant, with simplistic consequences. Some clear links are made.		
	1	1–2	Application of knowledge is limited and may show a lack of understanding of the spinal reflex arc. There may be a number of errors.		
			Analysis to demonstrate understanding of function of the spinal reflex arc lacks detail and may have limited effectiveness and		

	relevance. Links may be made but are often inappropriate.
0	No creditworthy material.
dicative cor	ntent
 A reflex A reflex response body from There are relay The reconneuron, The series The series The series The mode The effection Organise it. 	arc is a neural pathway that controls a reflex action action is an automatic (involuntary) and rapid se to a stimulus, which minimises any damage to the om potentially harmful conditions are three main types of neuron: sensory, motor and eptor in the skin detects a stimulus (the change in ature) nsory neuron sends electrical impulses to a relay which is located in the spinal cord of the CNS eurons connect sensory neurons to motor neurons. tor neuron sends electrical impulses to an effector. ector produces a response (eg muscle contracts to and away) sms are able to modify a reflex action and overcome

4 (c)	Cell body, dendrites and axon terminals are all components of a neuron.	4 AO1=2
	Identify two (2) other components of a neuron and describe one (1) of these components.	AO2=2
	Award one (1) mark for each correct identification and up to two (2) marks for a description of one component.	
	 Axon (1) - long, slender projection of a nerve cell (1), conducts electrical impulses known as action potentials away from the nerve cell body (1), transmits information to different neurons, muscles, and glands (1) Myelin sheath (1) – myelin insulates nerve cell axons (1), increases the speed at which information travels from one nerve cell body to another (1), does not form a single long sheath over the entire length of the axon (1). 	
	Accept other suitable responses.	

Impuls	es travel	along nerve pathways via synaptic	6
transm	ission.		AO2=3
Discus	s synapti	c transmission.	AO3=3
	Marka	Description	
Lever		Description	
3 5–6		accurate and shows clear understanding of synaptic transmission.	
		Analysis to demonstrate understanding of	
		synaptic transmission is detailed and highly	
		effective, with clearly reasoned	
<u></u>	2.4	Consequences. Clear links are made.	
2	3-4	Application of knowledge is mostly	
		appropriate, showing some clear	
		There may be a few arrors	
		There may be a few errors.	
		Analysis to demonstrate understanding of	
		synaptic transmission is effective and mostly	
		relevant, with simplistic consequences. Some	
		clear links are made.	
1	1–2	Application of knowledge is limited and may	
		show a lack of understanding of synaptic	
		transmission. There may be a number of	
		errors.	
		An churic to demonstrate un denoted dia s of	
		Analysis to demonstrate understanding of	
		synaptic transmission lacks detail and may	
		Links may be made but are often	
		inappropriate	
	0	No creditworthy material	
	U	No creditworthy material.	
ndicat	ive conte	nt	
• 5	Synaptic ti	ransmission is the process by which one neuron	
C	communic	ates with another	
• (Chemical	synaptic transmission involves the release of a	
r	neurotrans	smitter from the pre-synaptic neuron	
•	nformatio	n is passed down the axon of the neuron as an	
e	electrical i	mpulse known as action potential	
• (Once the a	action potential reaches the end of the axon it	
r	needs to b	be transferred to another neuron or tissue	
• /	At the end	of the neuron are the synaptic vesicles, which	
(contain ch	emical messengers, known as neurotransmitters	
• \	/Vhen the	electrical impulse reaches these synaptic vesicles,	
t	ney releas	se their contents of neurotransmitters	
• [veurotran	smitters then carry the signal across the synaptic	
(yap		

• They bind to receptor sites on the post-synaptic cell, thereby completing the process of synaptic transmission.	
Accept other suitable responses.	

5 (a)	(a) Physiological measurements that may be a cause for concern must be recorded.		
	Identify three (3) appropriate individuals that these measurements should be reported to.		
	 Award up to three (3) marks for a correct answer. Manager (1) Doctor (1) Senior nurse (1) Supervisor (1). 		

5 (b)	Cardiac is a type of muscle.	4
	Identify two (2) other types of muscle and explain the function of one (1) of these muscle types.	AO1=2 AO2=1
	Award up to two (2) marks for each correct identification and up to a further two (2) marks for an accurate explanation of the function.	AO3=1
	 Smooth/visceral (1) Involuntary (1) Muscle contractions assist the digestive system (peristalsis) (1) In the uterus these contractions assist with childbirth (1) In the bladder these contractions assist with pushing out urine (1). 	
	 Skeletal (1) Under voluntary control (1) Move bones (1) Provide support for skeletal system (1) Protect bones and internal organs (1). Accept other suitable responses. 	

the org	an syste	ms.	A O1=1	
	Morko	Description		
2	1VIA1K5	A wide range of relevant knowledge and	AO2=4	
5	1-5	understanding of the relationship between the	AO3=4	
		structure and function of organ systems is		
		shown, which is accurate and detailed.		
		Application of knowledge is appropriate and		
		accurate and shows clear understanding of		
		the relationship between the structure and		
		function of organ systems.		
		Analysis to demonstrate understanding of the		
		relationship between the structure and		
		function of organ systems is detailed and		
		highly effective, with reasoned judgements		
		made. Clear links are made.		
2	4–6	A range of relevant knowledge and		
		understanding of the relationship between the		
		structure and function of organ systems is		
		shown, but may be lacking in sufficient detail,		
		with a few errors.		
		Application of knowledge is mostly		
		appropriate, showing some clear		
		understanding of the relationship between the		
		structure and function of organ systems. There		
		may be a few errors.		
		A limited range of relevant knowledge and		
		understanding of the relationship between the		
		structure and function of organ systems is		
		shown, but is often fragmented		
1	1-3	A range of relevant knowledge and		
		understanding of the relationship between the		
		shown, but may be lacking in sufficient detail		
		with a few errors.		
		Application of knowledge is limited and may		
		show a lack of understanding of the		
		relationship between the structure and		
		function of organ systems. There may be a		
		number of errors.		
		Analysis to demonstrate understanding of the		
		relationship between the structure and		
		function of organ systems lacks detail and		
		may have limited effectiveness and relevance.		

0	No creditworthy material	
ndicative conte	nt	
Cells:		
– bas	ic building blocks of all tissues	
- a ce	ell is the smallest unit of life	
– insi	de cells are various structures that are specialised	
to c	arry out a particular function.	
Organelles	::	
– mic	roscopic components of cells	
– an (organelle performs specific functions within a cell	
– orga	anelles are embedded within the cytoplasm of	
euk	aryotic and prokaryotic cells.	
I ISSUES:	the and success of calls that have a similar structure	
- tiss	Les are groups of cells that have a similar structure	
and - the	cells in a tissue are not identical	
– the	e are four different types of tissues in animals:	
con	nective, muscle, nervous, and epithelial.	
Organs:		
– coll	ection of tissues that form a similar function	
- an (organ is made of several types of tissue and	
the	efore several types of cells	
– orga	ans are the body's recognisable structures.	
 Organ sys 	tems:	
– two	or more organs working together for a specific	
fund	ction	
- eac	n organ system also depends, directly or indirectly,	
- the	failure of even one organ system could lead to	
	ere disability or even death	
500		
NB Candidates	nay discuss specific organ systems and how	
he structure of	organs within these systems assists function	
and be awarded	credit.	
N		

5 (d)	The kidneys and urethra are two organs of the excretory	4
	system.	AO1=2

Identify the two (2) other organs of the excretory system and briefly describe the structure and function of one (1) of these organs.	AO2=2
Award one (1) mark for each correct identification and up to two (2) marks for a description of one organ.	
 Bladder (1) – receives urine from ureter (1), stores urine (1), passes urine out via urethra (1) 	
 Ureter (1) – a duct or tube (1), receives urine from the kidneys, (1) passes urine to the bladder (1). 	

Question	AO1	AO2	AO3	Total
1(a)	1			1
1(b)		4		4
1(c)	2	5	5	12
1(d)	1	2		3
				20
2(a)	1	3		4
2(b)		3	3	6
2(c)		3	3	6
2(d)	1		3	4
				20
3(a)			3	3
3(b)	1		3	4
3(c)	1	4	4	9
3(d)	1			1
3(e)		3		3
				20
4(a)	1	3		4
4(b)		3	3	6
4(c)	2	2		4
4(d)		3	3	6
				20
5(a)	3			3
5(b)	2	1	1	4
5(c)	1	4	4	9
5(d)	2	2		4
				20
Total	20	45	35	100

Assessment Objective Grid

NCFE CACHE Technical Level 3 Extended Diploma in Health and Social Care (601/8435/8) – January 2020 Series – Mark Scheme