Questions

Q1.

As part of a school's focus on healthy living, Year 10 students were asked to keep a log of all the food they ate over a one-week period. Figure 2 is an extract from a student's log.

	Breakfast	Lunch	Dinner	Snacks	Drinks
Monday	None	Burger and chips	Egg and chips	Chocolate bars × 2	1 litre water 1 litre coke
Tuesday	Cereal	Tuna sandwich from home	Chicken, potatoes, peas	Crisps	1 litre water

Figure 2

Which of the two days, Monday or Tuesday, provided a more balanced diet?	(1)
Q2.	
Why do you need to consider what you eat if you exercise regularly?	(1)
	(1)
Q3.	
Explain the requirements of a balanced diet.	
	(4)

Diet is an important consideration in a healthy, active lifestyle.

Fats

The table below lists six of the seven nutrients required for a balanced diet.

		520-5000-550		
	Fibre Minerals Protein			
) Identif	y the nutrient missing from	the table.		
) State	the importance of the miss	ng nutrient in maintaining an activ	e lifestyle.	
15.				
iet is an	important consideration in	a healthy, active lifestyle.		
ne table	below lists six of the sever	n nutrients required for a balanced	diet.	
Fats		Water	Vitamins	
Fibre		Minerals	Protein	
ate the	importance of the missing	nutrient in maintaining an active lif	estyle.	
Q6. Which	one of the following statem	aente ie true ?		
Which one of the following statements is true? A There is no need to wait to exercise after eating a large meal B During exercise blood is redistributed away from the muscles being used C The amount of exercise, work and rest has no impact on personal health B Blood shunting is the term used to describe the redistribution of blood during exercise				

Water

Vitamins

Planning what and when you eat is an important part of leading a healthy, active lifestyle. Which of the following would be the most appropriate amount of time to leave before exercising after a large meal?	
A No need to wait as the food will provide essential energy B Five minutes C Half an hour D Two hours)
Q8.	
To maintain a healthy lifestyle it is important to balance work, exercise and rest.	
Describe the link between exercise and rest.	
(2	!)

Q7.

(Total for question = 2 marks)

Q9.
Explain the importance of micronutrients in maintaining a healthy, active lifestyle.
Q10.
Diet and rest are two important factors to consider when planning for a healthy, active lifestyle. How may diet and rest influence personal health? (i) Diet
(1)
(ii) Post
(ii) Rest (1)
Q11.
Adrianna is a basketball player. Due to a lack of time she often eats her dinner just before playing basketball.
Explain why eating a large meal just before exercise might have a negative effect on performance.
(Total for question = 3 marks)
Q12.
Elite sports performers make sure they eat a balanced diet.
Briefly explain the importance of carbohydrates and protein to an elite sports performer.
(i) Carbohydrates

(2)

(ii) Protein	
	(2)
(Total for questi	on = 4 marks)
Q13.	
* Discours where an alite an automorphism are unable accordance to be less and dist	
* Discuss why an elite sports performer will make sure they eat a balanced diet.	(6)
	(0)

(Total for question = 6 marks)

Examiner's Report

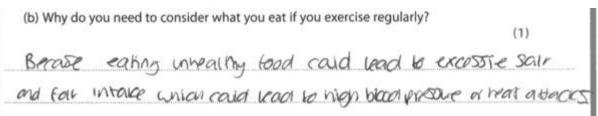
Q1.

This proved to be a very accessible question, with the vast majority of candidates correctly identifying Tuesday as the day containing the 'more balanced diet'.

Q2.

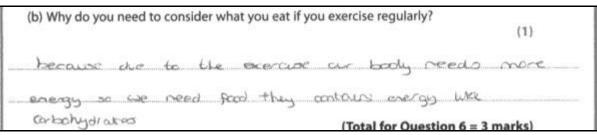
Valid responses were given by the majority of candidates the most popular correct response linking carbohydrates as a source of energy or the need for an energy balance between input and output.

Unsuccessful candidates gave vague responses about the need for a balanced diet/good diet or responses that would have been better placed in (ai).



Results Plus: Examiner Comments

This was an incorrect response for this question however, would have been a good answer to part 6(ai). Here the emphasis should have been on exercising regularly rather than personal health.



Results Plus: Examiner Comments

This is a good answer and gains the available mark. The candidate recognises that more energy will be required and this can be sourced through carbohydrates

Rather than asking for a simple list of food groups or nutrients required in a balanced diet this question asked candidates to explain the requirements of a balanced diet. The command word 'explain' requires more of an in-depth response from candidates in order to achieve maximum marks and evidence of increased knowledge or application will increase marks achieved. This was designed as a differentiated question and candidate responses did vary in terms of quality and depth of response. There were five possible areas where candidates could achieve marks. Correct popular responses included: correct identification of all seven food groups; eat carbohydrates for energy; drink water for hydration; eating the correct ratio of each group. Candidates should be dissuaded from using abbreviations in their example, for example carbs and from using question words to explain a term. In this case saying a balanced diet was a balance of food groups is insufficient to demonstrate understanding. The majority of candidates attempted to give a list of requirements for a balanced diet, and where there were omissions, fibre, water or vitamins tended to be the missing items.

(b) Explain the requirements of a balanced diet.	(4)
For a balanced diet, all	+ food that most be is
eat on a daily basis consumed Should include: C	
fats (15-30%), Protein (10-15%), water, fibre,
vikamins and minerals (all	in small amounts). This
is so that from your diet	you can opin energy
(from fats and carbohydrates	4.1
muscles (protein), keep the	2 (1
and maintain on averall health	ny body (vitamins, minerals and
Fibre).	(Total for Question 4 = 5 marks)

Results Plus: Examiner Comments

This response achieved four marks. The candidate has identified all seven 'groups' that should be included in a balanced diet; they have identified that there should be a greater percentage of carbohydrates to fats in the diet; linked energy to fats and carbohydrates and water to hydration. A good response.

(b) Expla	in the req	uirements of a bal	lanced diet.			(4)
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gabs , 160	tens , v:	atmics , mines	als , er fib	ce an	d nater	Je.,
nal	Calloh	diales	for energy	1 / Jon	need so	its for
energy	ond	insulations	you ner	1 patelos	8.0C g	6sh ach
		aced H				
		for hoon	-			
		-{@01 '				
		to kee			S4510~	177

Results Plus: Examiner Comments

This response also gains full marks. The items required in a balanced diet are identified and then a reason for each is given. Sufficient of these are correct to gain maximum credit (carbohydrates; minerals, with specific reference to the role of iron and water).

Q (a) was very well answered with the majority of candidates recognising that carbohydrate was the missing nutrient from the table. Q (b) was also well answered by the majority of candidates but fewer candidates gained credit for this part of the question than in Q (a).

Incorrect responses in (a) included named vitamins or minerals, eg vitamin C or iron or occasionally the question was omitted. As the question in (b) asked for the importance of the missing nutrient (rather than the importance of the candidate response in (a) reference to energy was the only acceptable answer.

Energy was a popular response, with almost three-quarters of the candidature achieving the mark for the question. Some candidates referred to slow release energy, which was not credited because this would be a characteristic of fats rather than carbohydrates.

(a) Identify the nutrient missing fro	om the table.			(1)
	phydrates		nang stat or problem states were re	
(b) State the importance of the mi	ssing nutrient in ma	intaining an a	ctive lifest	yle. (1)
II provides	energy	For	He	body

Results Plus: Examiner Comments

This response identifies carbohydrates correctly in (a) and energy in (b) and therefore gains both available marks.

2 marks

(a) Identify the nutrient missing from the table.	(1)
Carbohydrais	
(b) State the importance of the missing nutrient in maintaining an active life	style.
You need car bongdrates so ton cand buil	dup
Low music and become bigger.	DAMES A A SPECIAL DESIGNATION OF THE PARTY O

Results Plus: Examiner Comments

Whilst many candidates identified correctly the importance of carbohydrates in the diet, not all were able to. This candidate gains credit in (a) but has not identified the importance of carbohydrates for credit in (b).

1 mark

Q5.

No Examiner's Report available for this question

Q6.

No Examiner's Report available for this question

Q7.

No Examiner's Report available for this question

Q8.

The majority of candidates achieved one mark for this question. The question asked candidates to describe the link between exercise and rest.

Many candidates were able to make the link accurately between the two concepts, identifying that rest was needed for time to repair damage to the body as a result of the exercise session. Other popular correct responses make reference to the fact that rest was needed to give time for the body to adapt and become stronger.

Some candidates linked an incorrect cause and effect, ie linked rest for repair with adaptation, rather than injury prevention. Those that achieved both marks tended to do so for identifying the need for rest to repair muscle damage caused during exercise. This would prevent injury so that exercise could continue, although some candidates did also make the link between rest and time for adaptations to take place, to increase strength.

To maintain a healthy lifestyle it is important to balance work, exercise and rest.

Describe the link between exercise and rest.

You must have res	t periods when exercising to allow
the body to repa	ir any mild injuries or strains
before exercising a	gain. If you did not have rest,
your injury would	
) , ,	0

(Total for Question = 2 marks)

Results Plus: Examiner Comments

This example shows a popular correct response, gaining both available marks. The link is made between requiring rest to repair and mild injuries (after exercise) to prevent the injury from getting worse.

2 marks

To maintain a healthy lifestyle it is important to balance work, exercise and rest.

Describe the link between exercise and rest.

When yo	an exercise	you brook	down	nuscle
0	body . So	0		
	the body 1			7
	you will be			
recovery.			l for Question	

Results Plus: Examiner Comments

This response gains both available marks for making the link between needing rest after exercise for adaptation to take place, so that the body can gain strength. 2 marks

This question uses the command word 'explain', as a two mark question it was expected that candidates would provide a developed or 'linked' response. As the question stated 'Explain the importance' it was accepted that candidates might explain the importance from either a 'negative' or 'positive' viewpoint, either approach was catered for by the mark scheme, although the majority of candidates explained why we should have micronutrients in a diet from a positive point of view. Explanations were credited for an overarching reason of importance in relation to health, with development being demonstrated through use of a specific example, e.g. calcium for strong bones.

Popular incorrect responses identified fibre and water as micronutrients and/or carbohydrates and fats.

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	onents							414		
	active.									rd
\ /	structu									

Results Plus: Examiner Comments

This response gains the 2 marks available. Vitamins and minerals are correctly identified and linked to being 'healthy' and a specific example of the importance of vitamin D is given.

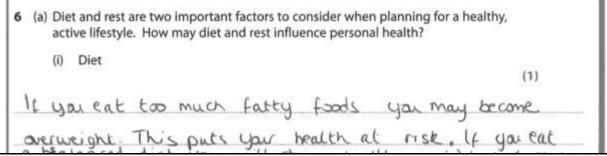
Micron	okrients	(minerals	, vikomins)	cre imper	rhant for mointaining
health	as vira	omins on	d minerals	increase or	mointain your
bodys	overcli	level of	health	eg. Calcium	(mineral) is
Closorb	ed by H	e body	to increa	se/maintain	bone strength.
They	olso	help the	bady 10	defend again	st disease/illness

Results Plus: Examiner Comments

This is another example of a 2 mark response. Vitamins and minerals are identified as micronutrients and their importance stated as 'increase or maintain your body's health'. This is developed through the use of an example.

(i)

Whilst the previous specification did have content relating to diet the focus was not on a healthy active lifestyle nor applied to personal health. Unsuccessful candidates tended to focus on the emphasis from the previous specification, i.e. fitness and performance rather than the more general health focus required. Where answers related to weight gain these were not credited unless candidate response also identified that this was as a result of eating too much.



Results Plus: Examiner Comments

Candidates should be advised to look for the clues in the question. The last part of the question states 'influence personal health' therefore this is not a question on fitness.

Results Plus: Examiner Tip

This candidate successfully identified the potential link between overeating/eating too much fat and becoming overweight

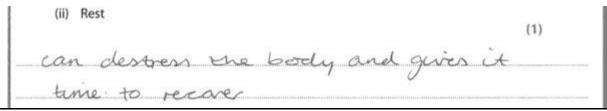
6 (active	lifestyle. H		int factors to co t and rest influe	TO SECURE OF THE CONTRACTOR OF THE PARTY.	anning for a health ealth?	y,	
if	(1) D	iet diet	UDV	could	loose	nieght	(1)	beam
me	n	fither.	U			J		

Results Plus: Examiner Comments

An example of an unsuccessful response. This candidate has misinterpreted the use of 'diet'. Their response refers to dieting rather than what you eat.

(ii)

Rest and recovery is a new addition to the specification therefore it was pleasing to see so many candidates making the link between rest and recovery in their responses. Unsuccessful candidates identified repair of the body, rather than repair of the muscle and did not gain credit. Other incorrect responses included rest being described as a problem, which would lead to reversibility, or the need to keep exercising to prevent atrophy rather than the need for appropriate rest for recovery.

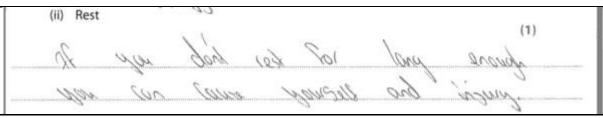


Results Plus: Examiner Comments

This candidate achieves the mark available for this question. They actually give two appropriate responses allowing time to 'de-stress' and 'time to recover'

Results Plus: Examiner Tip

Candidates should be careful when giving more than one response if only one is required. If the first response is incorrect the answer will be marked as wrong. This is to avoid the situation where candidates are unsure of the answer and so give a few in the hope that the examiner will select the correct one on their behalf.



Results Plus: Examiner Comments

This candidate response was credited as answer states if you don't rest injury can occur, in other words they presented the 'reverse' point to that on the mark scheme which was valid and therefore credited.

This question assessed candidates' knowledge and understanding of redistribution of blood flow.

Blood or vascular shunting was identified correctly, as was the need to allow time for food to digest before exercising. Some candidates were also able to discuss the conflict for blood to continue with digestion but also to supply sufficient oxygenated blood to the working muscles.

Candidates did not gain credit for making reference to a stitch/stomach cramps or inability to utilise the energy from the food.

Overall, this question was well-answered, with the majority of candidates achieving at least one mark, but with a good spread across the mark range.

Adrianna is a basketball player. Due to a lack of time she often eats her dinner just before playing basketball.

Explain why eating a large meal just before exercise might have a negative effect on performance.

Because when food is algebred it requires a blood from the dag hup dight he food. When you show the dag hup dight he food. When

argest food. Undigened pood in he szemach can cause crawer and exercistry. The mareness of brood to

201

(Total for Question 7 = 3 marks)

blood is available

Results Plus: Examiner Comments

The candidate identifies four points from the mark scheme and thus gains maximum credit.

They identify:

a aggerent

- the need for increased blood flow to aid digestion
- the need for increased blood flow to the working muscles during exercise

so les

- that this reduces blood flow available to the digestive system meaning that food remains undigested
- that the process is called blood shunting

Total = Max 3

7 Adrianna is a basketball player. Due to a lack of time she often eats her dinner just before playing basketball.

Explain why eating a large meal just before exercise might have a negative effect on performance.

Once you have eaten a large meal more blood needs to be supplied to the digestive system to aid digestion.

During exercise the working muscles need more oxygen and therefore more blood flow to work efficiently. More blood flow cannot go to both areas at the same time so during exercise it goes to the working muscles. This means that there will be foods and other companies that have not been digested causing the strength wamps and hizziness which effects performance significantly (Total for Question 7 = 3 marks)

Results Plus: Examiner Comments

In this example we see a clear explanation of the conflict between the areas of the body vying for additional blood flow and the consequences to the digestive system of not receiving sufficient blood flow as a result of exercise.

This response gains the three available marks.

Total = 3 marks

Q12.

(i)

This question asked for a brief explanation of the importance of carbohydrates to a sports performer.

The majority of candidates were able to achieve at least one mark for this question, identifying correctly the role of carbohydrates in energy release. Those candidates that went on to link with performance by explaining the impact of this, were able to access the second mark. Examples included being able to continue in the activity for longer without tiring - as in the last set in a tennis match - or needing the energy to maintain the quality of their performance throughout the match.

Where candidates did not gain the second mark, this was due to lack of application to the question context, ie why energy was important to a sports performer.

6 Elite sports performers make sure they eat a balanced diet.

Briefly explain the importance of carbohydrates and protein to an elite sports performer.

(i) Carbohydrates

(2)

Energy is given through carbohydrates.

Perform

Perform

Their best, with the energy given perform.

Results Plus: Examiner Comments

Credit is given for identifying the role of carbohydrates and the explanation of their importance to the performer, ie the energy allows the performer to perform at their best. Total = 2 marks

6 Elite sports performers make sure they eat a balanced diet.

Briefly explain the importance of carbohydrates and protein to an elite sports performer.

(i) Carbohydrates

(2)

To provide onegy. This can keep a formation for gometers.

Results Plus: Examiner Comments

This response also gains maximum marks.

In this instance, credit is given for identifying that carbohydrates provide energy so that sports performers could keep running for 90 minutes.

Total = 2 marks

(ii)

This question asked for a brief explanation of the importance of protein to a sports performer.

Whilst fewer candidates achieved at least one mark, those that did were more likely to gain both marks, than for the previous question. This indicated that if the role were known, candidates found it more straightforward to apply their knowledge to the question.

Where candidates did not gain both marks, this was often due to a confused response. For example, reference may have been made to protein for muscle growth but linked with improved recovery rate from injury, rather than linking this with the 'repair' function of protein.

A popular correct response was that protein allowed muscle growth, thereby increasing the strength of the performer.

(2)

Protein is needed for growth and repair of muscle tissue. It is important to an elite performer as if they are injured, they need to be able to inspersionly recover as quickly as possible.

Results Plus: Examiner Comments

This response achieves both available marks.

This response identifies both functions of protein - growth and repair - and goes on to explain why this is important to a performer, ie to speed up recovery.

Total = 2 marks

Protein is important because it was grow and repair nurcles. This is they it a performer has muscle as it would repair it quicker meaning he could get back to training foster.

(Total for Question 6 = 4 marks)

Results Plus: Examiner Comments

This response gains both available marks.

The candidate identifies the role of protein in growth and repair and places it in the correct context. They explain that it is important to allow quicker recovery so that the performer is able to return to training sooner.

Total = 2 marks

Q13.

This question was the first of the extended, levels-based responses. There was a good distribution of marks for this question across Levels 1 and 2, (0 - 4 marks), although candidates continued to experience difficulty in accessing the top marks. This was not surprising, because the levels reflect the quality of the response, rather than the number of 'knowledge points' made.

The demands of this question were similar to those of previous years and the impression from examiners was that more candidates appeared to be accessing Level 2 than in the previous series.

Candidates were asked to discuss why an elite sports performer would make sure they ate a

balanced diet. In order to discuss this question, candidates needed to demonstrate their knowledge of the topic by providing content that related to a balanced diet. For example, they could have made reference to the components of a balanced diet, the ratio of the elements and then applied this knowledge by linking it to an elite sports performer. Candidates could discuss the need for carbohydrates to provide energy for performance, or proteins for growth and repair.

To extend the discussion point (and therefore the quality of the response), rather than just giving the role of the nutrient, some candidates also made reference to the impact this would have on performance. For example, they could cite an athlete's energy requirement so that the athlete could continue to work at an appropriate standard throughout the activity or training, or water for hydration to replace that lost through sweat whilst exercising.

Those candidates achieving Level 1 tended to do so due to their knowledge of balanced diets. They would make a number of relevant facts about a balanced diet but did not attempt to link this to the question context. Those that were able to apply this knowledge often achieved three marks at Level 2, demonstrating sufficient quality in their response to move to Level 2, due to a greater understanding of the question's demands.

Level 3 responses were factually accurate around a range of 'dietary' points, demonstrating knowledge, the ability to apply this knowledge and discuss the impact of the various food groups on the elite performer and their performance. In some instances, this was an accurate discussion about the need for elite athletes to amend their diet based on the demands of their activity, ie to move away from a balanced diet, to ensure that they ate what they needed to be effective in their activity. A popular correct response in relation to this was a discussion of carbohydrate loading for endurance athletes.

Discuss why an elite sports performer will make sure they eat a balanced diet.

An elite perbinner will make sure they eat a balanced diet, this is because your diet can affect your performance for example eating an anneathing diet could lead to too much weight loss or gain or a deficiency in the winds.

A balanced diet should contain the right ratio of each food group for your

for example an ecromorph Somatotupe whereas an mesomor Ph tarbohydrates. more performer need energy Carbo loading you In high intensitus. Will

Results Plus: Examiner Comments

Good example of discussion point around dietary manipulation, in particular carbo-loading. Good application to question.

An elite sports performer who would an edge on their opponents. There are many ways to essent offenpt. Aus. A balanced diet is one way they whiting and become even better to be come a best. A. balanced dust well help an elite performento Marton good high levels of health and stress. There are many components of a balanced diet but elte perportuers when rake sure thought it right. For example Carbolydrates WM be expected to be eater the most by alte performes. This will release slows burning energy. They where also have a lot of fruit and vegetables to keep thou fit and healthy. This where give thoughts Witchers they read. Despite foits and sugars bery unhealthy Aley whe read to eat they to ensure a balanced duet. They are useful for giving a short burst of energy. Fots are a store of every so performers whe read that fin elite performer while also eat different amounts of each food depending on their sport For example rugby players will have more forts and protein to increase unscalar strength and weight. This is suportant for then as they use this transport a game traderer a long distance runner coll eat more

Cartalydrates to Keep every levels high throughout the run. I trink it is exerted for elite performers to hume a bolanced diret. This is because they read to be as fit and healthy as they can to compete at top levels.

Overall balances diets are essential for elite performers as they give their a directage on going however, they may have different diets for different sports. This is to keep there.

Aret specific to their sport.

Results Plus: Examiner Comments

This is an example of a Level 1, two-mark response.

Credit is given for display of some knowledge of the components of a balanced diet, for example:

(Total for Question

- carbohydrates/fats provide energy
- carbohydrates should form the largest part of the meal
- vitamins and fats are required as part of a balanced diet

There is also some attempt to link to the question context:

- rugby players will eat more fats and protein to increase their strength and weight (candidate does not state which effect links to which nutrient)
- long-distance runners would eat more carbohydrates

However, at no point does the response go into depth, to discuss any points. For example:

- why does the long distance runner need more carbohydrate?
- what is the role of vitamins?
- how do vitamins help elite performers?

Although the candidate has written extensively in response to the question, they have not addressed the discursive needs of the question nor demonstrated sufficient knowledge to move into Level 2.

Fihre, follo, walker, coshphydrate, problem, minerals

* Discuss why an elite sports performer will make sure they eat a balanced diet.

A balanced delt contains different things like fibre Eat, water, cerbulydrabes, proteins and minerals and Whening, each one provides different thenys that benefit your body. Carbohydrakes provide long lasting energy e. og pasta. Fat provides short terus energy e-y sweets. Proteen provides repair and to duringe Eissee which would be good for an elite player because their body will need to repair after taking part is a game. Water Keeps you hischalled and for a lite performer its key as strug hydrated because water a always Cert Ekrough sweet. Minerals and Ulbernins proutell bere growth which will benefit a elite player because their skeletul structure reeds to be strong and healthy. Fibre allers wester prodults like poor to come out smoothly this is important because the clife player will need a claw digestive system as stay facus on the your as brainway.

performer be cause they both provide every which will be needed for games and training.

Results Plus: Examiner Comments

This is an extract from a Level 2, three-mark response.

The response demonstrates knowledge of the nutritional requirements of a balanced diet, for example, all seven components are listed, and their role is stated.

This response moves to Level 2 because there are attempts to link and discuss the role of some of the nutrients in terms of an elite performer. For example, 'protein provides repair to damaged tissue, this is good for an elite performer because their body will need repair after taking part in a game'. This could have been extended further, linking to reduced risk of injury or improved performance in the next game, but there is partial, relevant discussion.

There is another attempt to discuss a point, this time in relation to water: 'Water keeps you hydrated, for an elite performer this is key...because water is always lost through sweat'. The impact on performance of not remaining hydrated could have been a means to develop this point fully.

The knowledge demonstrated and the partial success at applying and developing this knowledge places this response at Level 2.

Discuss why an elite sports performer will make sure they eat a balanced diet.

(6)

A balanced det is enjuring you eat the corect proportion of the correct proportion of the correc

They would need to eat carbonydiates, found in broad, parto and rice, or there provide the most energy. This would be especially imposint for enduanceathicks, such as Markotha morathic aurineo as it will mean they can continue rusning to long periods of time without timing as much to complete the cace. This is why carbo - loading is done began a large race to ensure they have an energy. They provide star release energy. However, a 100m sprinter may netword as much curbonyarutes as slaw release energy isn't needed due to the speed of the event.

Only a small amount of fat (ord sugo) would be eater. The 11 because fat only provide a secondary source of energy, but an early gome stay in your body and lead to weight gain. It's faind in food like fatty road and chair.

The wand restrict the above of endurance cover as fat cand result in business over a fat cand result in the above the endurance cover as fat cand result in the survey of the survey of

Spale performed whereart a let by partin. The we help them is build and repair musice so they can continue to train go with a decreased ask by using It's found in fut and dawy on eggs. Spots were as springing there a necessary body type is key may wirelf a It and her build music man and stringthe coultary in a greater part to the quilker.

Lets of Vitamuni and mineral will be receded by speed performed removed to named proper which are it principle as much. They held to maintain the immune rystom as held the bedy maintained. People doing weight because althorited—the aught may may had a let of calcium for strong tree to reduce real of Halting maning trey are unable to participate. Also, they mis read a let of vitamin D to absorb the Ballium.

Bapic who don't do Weight-bearing such as strongwish, may rood a let to more up to the Manager for during they got of the require their place of orthogonous.

(Total for Question = 6 marks)

Fibre will be taten by all sports pegamen to aid healthy digistion and help reduce thelesteral. Water will be drunk to prevent dehydration and tintrol body tumperature and transport nutrients. Elik pegames would drunk a lot to replenished Water lot through intense exercise therefore decreasing by nik as dehydration or headather preventing them tress training.

Results Plus: Examiner Comments

This is a level 3, six-mark response.

The response contains several discussions points that link an aspect of a balanced diet

to its role and importance for an elite performer, or the specific nutritional requirements for specific activities. For example, in the first and second paragraph there is discussion of the need for carbohydrates for energy and a balanced energy intake based on the energy demands of two different activities (long distance running and sprinting). The third paragraph discusses the value of fats for energy, but the need to limit intake in order to avoid weight gain. To develop this point fully, a further link would have then been made to elite performance, rather than to health.

At the bottom of page one of the response, and top of page two, there is full discussion of the role of protein from an elite performer's point of view, culminating in discussion of the need for sprinters to eat more protein so they are more mesomorph, therefore stronger, and better able to generate more power to run at faster speeds.

The remaining paragraphs on page two discuss the relevance of vitamins/minerals and water to the elite performer.

This is an outstanding response.

Mark Scheme

Q1.

Answer	Do not accept	Additional Guidance	Marks	Total
Tuesday	Monday any other day of the week	Accept Tues	1 × 1	1

Q2.

Answer	Mark
1. Accept reference to protein if related to muscle / repair / food for energy / equiv 2. Accept reference to carbohydrates/fats for energy for activity 3. Accept reference to balance between input - output / eat calories - burning off / eat in ratio to exercise / activity 4. Balance diet therefore well	
enough to exercise (1×1)	(1)

Q3.

An explanation that makes referent to any four of the following: 1. Balanced diet should include macronutrients; micronutrients; water and fibre OR Balanced diet should include fats carbohydrates; proteins; vitamins; minerals; water; fibre	Do not accept	must be more than simple list for full credit, however, if list is given, provided contains all elements can gain point 1		
2. Correct proportions of macronutrients and micronutrients or OR Optimal ratio of nutrients OR Correct amounts of nutrients	Healthy mix (1)	Point 2: Accept reference to relative size of proportions e.g. correct percentage of nutrients e.g. fats should form smaller part of diet than carbohydrates (1)		
Micronutrients for maintaining body health	Do not accept carbs in place of carbohydrates (1)	Point 4 accept specific example of vitamin or mineral and effect e.g. vitamin D stronger bones	4×1	4
OR Vitamins OR Minerals for maintaining body health 5. Water to avoid dehydration OR Fibre to aid/help digestion	(1)	Point 5 accept reference to replacing lost fluids due to exercise. Accept chemical equiv for water (H ₂ O)		
	(1) Do not accept fluid or liquid			

Question	Answer	Do not accept	Additional Guidance	Mark s	Total
	Carbohydrates	Carbs	Do accept phonetic spellings	1x1	(1)

Question	Answer	Do not accept	Additional Guidance	Mark	Total
	Remember we are not marking part (a) Provides energy	Slow release energy	As reference is made to the 'missing nutrient' in the table response must relate to carbohydrate s Can credit provides energy even if incorrect nutrient identified in (a) or if no nutrient identified in identified in	1x1	(1)

Question	Answer	Do not accept	Additional Guidance	Mark	Total
	Remember we are not marking part (a) Provides energy	Slow release energy	As reference is made to the 'missing nutrient' in the table response must relate to carbohydrate s Can credit provides energy even if incorrect nutrient identified in (a) or if no nutrient identified in (a)	1x1	(1)

Q6.

Answer	Mark
Q - Which of the following statements is true? D – (Blood shunting is the term used to describe the redistribution of blood during	
exercise)	(1)

Answer	Mark
D Two hours	(1)

Q8.

Question	Answer	Do not accept	Additional Guidance	Marks	Total
	A linked description of the relationship between exercise and rest that includes two of the following points: During rest (muscle) repair takes place (1) therefore without rest will be subject to injury/overuse (1) During rest energy (stores) are replaced (1) therefore without rest would not have correct energy levels to work/be fatigued/couldn't perform at their best (1) During rest adaptations take place (1) therefore need rest to increase fitness (1)	Tired (unless in context of depleted energy)	35-4-1-30-4-1-30-4-1-30-4-1-3-4-1-3-4-1-3-4-1-3-4-1-3-4-1-3-4-1-3-4-1-3-4-1-3-4-1-3-4-1-3-4-1-3-4-1-3-4-1-3-4	1x2	(2)

Q9.

Answer	Do not accept	Addition al Guidanc e	Mark	Total
An explanat ion that		Explanati on must be linked	2x1	(2)

makes reference to the following: Micronut rients Insufficient can lead to deficienc y y sillnesses OR lack of vitamins/ minerals can lead to ill health/ OR micronutr ients are vitamins and mindividual could suffer with osteopor osis/wea k bones making it difficult to lead a healthy, active lifestyle (1) OR (if approach ed from positive vitewpoint) (The correct reference to to the following: Insufficient can lead to deficienc a specific example so of impact of vitamins or mineral deficienci es example so of impact of witamin or mineral manual mindividual could suffer with osteopor osis/wea k bones making it difficult to lead a healthy, active lifestyle (1) OR (if approach ed from positive vitewpoint) (The correct ratio of) micronutr ients are vitamins and.	 			
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minerals OR they help to maintain health/bo dy systems (1) • For example, iron prevents anaemia. OR vitamin D helps increase strength	
strength of bones (1)	

Q10.

	Answer	Mark
(i)	THIS QUESTION IS ABOUT HEALTH – NOT EXERCISE. 1. Accept specific comment e.g. Eat too much become overweight / places strain on vital organs/equiv 2. E.g. Don't eat enough become anorexic/equiv 3. E.g. Eating wrong diet can cause health problems, e.g. heart attack Do not accept eat right nutrients for exercise / energy / protein for recovery / must be a healthy diet / not diet as in dieting. Do not accept one-word answers (1 x 1)	(1)
(ii)	Allows recovery / less prone to illness/injury / mental health issues / stress / exhaustion / equiv Accept reverse, i.e. insufficient time for recovery/more prone to illness / mental health issues / stress / exhaustion / equiv (1 x 1)	(1)

Question	Answer	Marks	Total
	Linked explanation any three of the following points:		
	Blood shunting occurs (1)		
	(Increased) blood flow to the digestive system is required after eating a large meal (1)		
	(However) blood flow is required to the active muscles during exercise (1)	1x3	(3)
	 (Resulting in) insufficient blood for increased blood flow to <u>both</u> the digestive system and active muscles /exercise causes blood flow to digestive system to be restricted/blood goes to muscles rather than digestive system (1) 	10.000	(5)
	Therefore insufficient blood is made available to the digestive system/meal is not fully digested /need time to digest food (1)		
	Accept other relevant explanations.		

Q12.

Question	Answer	Marks	Total
(i)	A linked explanation, e.g.		
	Carbohydrates provide energy (1)		
	Carbohydrates provide energy (1) so quality of performance remains high/optimum performance (1)		
	 Carbohydrates provide energy (1) so they can last longer in their game/race/event 	1x2	(4)
	 Carbohydrates provide energy (1) so they can maintain/continue activity level in game/race/event without tiring 		
	 Carbohydrates provide energy (1) so can increase intensity/work rate when needed in a fast break (1) 		
	Accept other relevant explanations.	o.	,

Question	Answer	Marks	Total
(ii)	A linked explanation, e.g.		
	 Protein is used for growth/ increased muscle mass/bigger muscles (1) so stronger/powerful/faster for their event (1) 		
	 Repair of tissue/muscle (1) to recover from injury/quicker recovery (1) 	1x2	(2)
	Accept other relevant explanations.		

Q13.

Question	Answer
3	Discuss why elite sports performers will make sure they eat a balanced diet.

Indicative content

This is indicative content only; candidates should be credited for all relevant accurate statements related to the question.

A -Simple statements linking a list of items making up balanced diet or what a balanced diet means e.g.

- Minimum of two elements of balanced diet from: Fats, carbohydrates, proteins, vitamins, minerals, fibre and water, or macronutrients, micronutrients, fibre and water
- The right <u>mix/ratio/proportions/amounts</u> of the required nutrients in a diet -Require a balanced diet to maintain correct/healthy body weight

B -Simple statements linking food group with function e.g.

- Carbohydrates/fats for energy ('carbs' does not demonstrate required technical language) - Protein for growth/repair
- Vitamins/Minerals to reduce deficiency diseases/maintain health (accept specific examples as simple statements, e.g. calcium/vitamin D for bone density/strength, vitamin C helps heal wounds)
- Water for hydration
- Fibre to aid the digestive system

C - Developed statements linking simple statement re diet to performance e.g.

- Carbohydrates/fats for energy (S) so they can continue to work throughout the activity/not get fatigued (S+) so quality of play is not affected (D)
- Fats for <u>long term</u> energy use (S) <u>so</u> they can continue to provide energy to work <u>aerobically</u> (S+) throughout the activity (D)
- Protein for repair (S) of muscle tears after training (S+) so they can continue with training programme (DS)
- Protein for growth (S) so that adaptations can take place (S+) increasing the strength of the muscle (D)
- Water to remain hydrated (S) preventing dehydration (S+) <u>otherwise</u> exercise becomes more difficult due to elevated heart rate/unable to regulate body temperature (D)
- Calcium for increased bone density (S) making the bone stronger (S+) reducing risk of breaks in contact sports (DS)

Accept other accurate statements demonstrating ability to apply knowledge of aspects of balanced diet to importance when playing sport.

D - Developed discussion points re why a balanced diet is important e.g. Elite play is physically demanding (S) therefore need to make sure they eat the right foods, in the correct quantities (S+) to allow them to meet the demands of the sport (D)

During match play muscles could be damaged (S) therefore it is essential they eat protein to repair the damage (S+) so they can play the next game/train (D)

A balanced diet is the correct mix of carbohydrates, fats, proteins, vitamins, minerals, water and fibre, (S) if the ratio was incorrect the body could not function at its optimum level (S+) e.g. too much fat would mean additional 'dead weight' to carry slowing the player down /increasing energy usage so they tire more quickly (D).

Nutritional requirements for activity may mean that the performer needs a different ratio of nutrients (S), for example, increased a power athlete may need increased protein intake (S+) compared to an endurance athlete (D).

Accept other accurate statements that discuss why a balanced diet is important in sport.

Level	Mark	Descriptor
Level 0	0	No rewardable material
Level 1	1-2	 (i) A number of simple statements that link the items required to make a balanced diet/describe a balanced diet. (Indicative content area A)
		(ii) A number of simple statements that link food groups to function.(Indicative content area B)
		Candidates will produce brief and narrative responses, making a limited number of simple statements, probably with limited reference to the question. Little knowledge and understanding of the range of requirements. Responses produced by candidates will be mostly generalised, and may not fully address the requirement of the question to discuss why an elite sports performer will make sure they eat a balanced diet.
		Candidates' writing communicates ideas using everyday language, but lacks clarity and organisation. There will be frequent errors in candidates' spelling, grammar and punctuation.
Level 2	3-4	(i) Developed statements, i.e. simple statements that progress to explain the link between the function of the food group and performance in the activity. (Indicative content area C)
		(ii) Developed statements, i.e. simple statements that progress to explain the link between a balanced diet and an aspect of performance. (Indicative content area D)
		(iii) May contain a basic (but accurate) conclusion in line with previous points.
		Candidates' responses will be mostly accurate and include relevant factual material. Some knowledge and understanding of the requirements of a balanced diet for an elite sports performer. Candidates will have some success in addressing the requirement of the question to discuss why an elite sports performer will make sure they eat a balanced diet.
		Candidates' writing communicates ideas with accurate use of appropriate terminology, and the organisation of the response shows some direction and control. There will be few errors in spelling, punctuation and grammar.
Level 3	5-6	(i) Developed statements (using relevant examples) balanced and succinct. (Indicative content areas C and D)
		(ii) Probably provides a conclusion based on points raised
		Candidates will offer factually accurate and sustained responses that relate well to the focus of the question and successfully addresses the discursive demands.

Sound knowledge and understanding of the requirements of a balanced diet and why it is important for specific sport performance. The discussion will be supported by accurate factual material that is relevant to the question. Both function of food groups and relevance to sporting performance will be evident with appropriate conclusions reached.

Candidates' writing communicates ideas effectively using appropriate terminology, and organises material clearly and coherently. Spelling, punctuation and grammar will be accurate throughout the response.