GCSE PE PLCs 1.1.5 Your personal health & well-being Mock Exam

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

				sandwich from home	potatoes, peas		water			
				Trom nome	pedo					
Figure 2										
i) V	Vhich o	of the tw o	o days, Monda	ay or Tuesday,	provided a mo	re balanced d	iet? (1)		
Tue	esday									
ii) E	ii) Explain why you have chosen this day (2									
This is because Tuesday contains carbohydrate and fat for energy, protein for repair and growth, it has reduced calorie intake compared to Monday which avoids excessive weight gain and is a balanced diet which is necessary for exercise										
Q2. Why do you need to consider what you eat if you exercise regularly? (1)								1)		
-		cise reg air and		I need to cons	ider carbohyd	rate for energ	y and protein	1 for		
Q3.	Explai	in the re	quirements of	a balanced di			((4)		
(carl	bohydr	ate and	fat for energy	and protein f	for growth an	l ratio of maced repair), miced hydration) and	ronutrients	I		
Whic	ch of th cising a r b f	e follow after a la	ing would be the arge meal? o wait as the fotes	•	nt part of leadir priate amount	ng a healthy, ac of time to lea v	ve before	1)		
X	d t	two hou	rs							

Q3. Willer of the following statements is true:	(1)
 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 d blood shunting is the term used to describe the redistribution of blood durexercise 	
Q6 Explain the link between exercise, diet, work and rest	(4)
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The link between the 4 elements is that exercise prepares the body so that it is phy capable of completing tasks without being exhausted, and your diet will see the conamount of calories to provide the body with enough energy to complete the exercise and rest create a physical and mental balance which is especially important in demonstrates and a balance between all 4 enables the body to function at its optimal level	rect e. Work
Q7 Explain the importance, and use, of two macro nutrients	(4)
One macro nutrient is carbohydrate. It is important because it provides energy.	
A second macro nutrient is protein. It is important because it is responsible for the and repair of muscle.	growth
Could also have	
A macro nutrient is fat. It is important because it provides energy.	
Q8 Explain the importance, and use, of two micro nutrients	(4)
One micro nutrient are minerals such as calcium. It is important for maintaining hebecause it provides bone strength	alth
One micro nutrient are vitamins such as vitamin D. They are important for maintain health because they allow for general skin, bone, teeth and vision health and the foof red blood cells`	
Q9 Explain the importance, and use, of;	
i) Water is important because it provides hydration which is important in the	
marathon to avoid dehydration especially on a hot day	
ii) Fibre is important because it aids digestion which is important after you have	e eaten
a meal before exercise as the blood will eventually be shunted away from the dissystem (4)	gestive

Q5. Which one of the **following statements** is **true**?

Q10 Explain the need to consider the timing of dietary intake when performing the marathon (4)

When performing the marathon an athlete needs to ensure that they eat a carbohydrate rich meal at least two hours prior to exercise so it is fully digested to provide energy. During the marathon eating simple sugars (glucose gels or powders) will provide energy. During exercise blood is shunted (redistributed around the body) from the digestive system to the working muscles which means that blood supply to the digestive system is massively reduced, which means that any undigested food will stop being digested.

Q11 Explain the need to consider the redistribution of blood flow (blood shunting) during exercise (4)

Individual's need to consider blood shunting during exercise because blood is shunted (redistributed around the body) from the major body systems (such as the digestive system) to the working muscles. This is so that more oxygen can be delivered to the working muscles, so that energy can be released. This also means however that blood supply to the other systems (such as the digestive system) is massively reduced which means that any undigested food will stop being digested.

Q12 Diet is an important consideration in a healthy, active lifestyle. The list below lists six of the seven nutrients required for a balanced diet. **Fats Water Vitamins Fibre Minerals Protein**

(a) **Identify** the **nutrient missing** from the **table**. (1)

Carbohydrate

(b) State the importance of the missing nutrient in maintaining an active lifestyle. (1)

Carbohydrate is important because it provides energy

(c) Some vitamins and minerals can increase bone strength. Apart from diet, **how** else can a **person** increase their bone strength? (1)

Weight bearing activities (running) will increase bone density and therefore increase bone strength

(d) Explain why we are told **not** to exercise immediately after eating a large meal. (3)

At rest 85% of blood is directed at the organs (which includes the digestive system) which is important for the digestion of food. During exercise blood is shunted away from the digestive system and delivered to the working muscles. We are told not to exercise immediately after eating a large meal because the food will not have been fully digested because the blood supply has been massively reduced. You should eat 3-4 hours before exercise.