General Certificate of Education June 2008 Advanced Level Examination

HEALTH AND SOCIAL CARE Unit 13 The Role of Exercise in Maintaining Health and Well-Being

HC13



Friday 6 June 2008 1.30 pm to 3.30 pm

For this paper you must have:a 12-page answer book.

Time allowed: 2 hours

Instructions

- Use black ink or black ball-point pen.
- Write the information required on the front of your answer book. The *Examining Body* for this paper is AQA. The *Paper Reference* is HC13.
- Answer all questions.
- Do all rough work in the answer book. Cross through any work you do not want to be marked.

Information

- The maximum mark for this paper is 80.
- The marks for questions are shown in brackets.
- You will be marked on your ability to use good English, to organise information clearly and to use specialist vocabulary where appropriate.

Answer all questions.

There are 20 marks for each question.

1	Karin is improving her aerobic fitness by taking regular aerobic exercise.						
	(a)	(i)	ed? (3 marks)				
		(ii)	Explain how regular aerobic exercise will improve Karin's long-term aero fitness. Refer to physiological processes in your answer.	obic (7 marks)			
	(b)	(b) Suggest three different aspects of muscular fitness which may be improved exercise.					
	(c)	Desc	cribe how regular exercise may help Karin control stress.	(7 marks)			
2	Regi	cercise may be effective in combating ageing.					
	(a)	Expl	ain, with reference to physiological processes, how regular exercise can do	this. (9 marks)			
	(b)		gest three different safety precautions that are necessary before starting exe e one different reason why each safety precaution is important.	ercise. (6 marks)			
	(c)	Desc	cribe the effects of regular exercise on appetite.	(5 marks)			

3 The following data were obtained during identical exercise performed for five minutes by three adult males.

	Perceived Exertion Scale (0–10) 0 – no effort 10 – maximum effort		
	Person A	Person B	Person C
Exercise starts			
1 minute	3	3	2
2 minutes	4	3	3
3 minutes	6	4	5
4 minutes	7	4	6
5 minutes	8	5	7
Exercise stops			

- (a) (i) What conclusions can be drawn from the data in the table? (6 marks)
 - (ii) Give one strength and one limitation of using perceived exertion scales. (2 marks)

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(b)	(b) Tidal volume and Body Mass Index (BMI) were also calculated for the th the five minute exercise period.					
	(i)	Explain how tidal volume is calculated.	(3 marks)			
	(ii)	Explain how Body Mass Index (BMI) is calculated.	(3 marks)			
(c) Person A's BMI was calculated to be 27, while Person B's was 17.						
	(i)	What does Person A's BMI result indicate?	(1 mark)			
	(ii)	What does Person B's BMI result indicate?	(1 mark)			
	(iii)	Outline how exercise pulse rates can be used to compare the fitness leve individuals.	ls of two (4 marks)			
(a)	Suggest three common barriers that may prevent people from taking part in regular exercise. For each barrier suggest one different way it may be overcome. (6 marks)					
(b)	(i)	Name two different diseases that may be prevented by regular exercise.	(2 marks)			
	(ii)	Name two different diseases that may be regulated by regular exercise.	(2 marks)			
	(iii)	Explain how regular exercise can help prevent or regulate disease.	(10 marks)			

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END OF QUESTIONS

There are no questions printed on this page