Centre Number			Candidate Number		
Surname					
Other Names					
Candidate Signature					



General Certificate of Education Advanced Level Examination Specimen Paper

Health and Social Care

HSC07

Unit 7 Food and Fitness

2012

You will need no other materials.

Time allowed

• 2 hours

Instructions

- Use black ink or black ball-point pen.
- Fill in the boxes at the top of this page.
- Answer all questions.
- You must answer the questions in the space provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work that you do not want to be marked.
- If you need extra paper, use the Supplementary Answer Sheets.

Information

- The maximum mark for this paper is 80.
- The marks for questions are shown in brackets.

Version 1

For Examiner's Use		
Examiner's Initials		
Question	Mark	
1		
2		
3		
4		
TOTAL		

	Answer all questions in the spaces provided.
1	Diane is a 25-year-old obese female with a low VO_2 max. She has a very busy lifestyle and eats out most days. She finds work very stressful, time-consuming and feels tired all the time. Diane has decided to rethink her way of living and decides to start exercising to improve her aerobic fitness and also look at her diet.
1(a)	Explain what VO_2 max measures, referring to Diane's VO_2 max. Include in your answer the units of measurement.
	(5 marks)
1(b)	What is meant by aerobic fitness?
	(3 marks)

	ectively use to n your answe		nydrates dur	ing exercise.	Refer to phy	how Dia
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State two sources of iron that Diane may wish to consider adding to her diet.
(2 ma
Explain how regular exercise can contribute to the emotional and social well-being of individuals.
(6 mari

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Discuss the extent to which regular exercise may help combat the effects of ac Refer to physiological processes in your answer.	
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The quality of written communication will be assessed in this question.	

The following data were obtained from four healthy 20-year-old males.

	Adults Measured					
Measurement	Adult W	Adult X	Adult Y	Adult Z		
Peak flow (dm³/min)	330	508	452	550		
Body Mass Index (BMI)	17	31	22	23		
Resting Pulse Rate (BPM)	64	68	84	70		
Recovery time to resting pulse after identical exercise (mins)	7	4	7	5		

	(mins)				
	Analyse the data and	compare the four	adult males in ter	ms of:	
3(a)	peak flow measureme	ents			
					(4 marks)
3(b)	BMI calculations				(1
					(4 marks)

3(c)	resting pulse rates	
		(4 marks)
3(d)	recovery times after identical exercise.	
		(4
2 ()	O're and also at the and are limited as a function DMI	(4 marks)
3(e)	Give one strength and one limitation of using BMI.	
		(2 marks)

3(f)	Name the system and the process used to help the body maintain a stable environment.
	(2 marks)
4	Working long hours is a common barrier to an individual taking regular exercise.
4(a)	Give three other common barriers to individuals taking part in regular exercise. For each barrier suggest one different way it might be overcome.
	Barrier 1
	Might be overcome by
	Barrier 2
	Might be overcome by
	Barrier 3
	Might be overcome by
	(6 marks)

4(b)	Stephen is an adult male who has been diagnosed with hypertension and typ diabetes. Discuss how regular exercise might improve or regulate Stephen's hypertension and type 1 diabetes. The quality of written communication will be assessed in this question.	e 1
		(9 marks)
4(c)	Outline a suitable exercise and diet programme that is safe for Stephen to take	e up.
		(5 marks)

END OF QUESTIONS

20

