

CYD-BWYLLGOR ADDYSG CYMRU Tystysgrif Addysg Gyffredinol Uwch

534/01

PHYSICAL EDUCATION - PE4

P.M. WEDNESDAY, 13 June 2007

 $(1^3/_4 \text{ hours})$

ADDITIONAL MATERIALS

In addition to this examination paper, you will need a 12 page answer book.

INSTRUCTIONS TO CANDIDATES

Answer all the questions.

INFORMATION FOR CANDIDATES

Mark allocations are shown in brackets.

Candidates will be assessed on their quality of written communication.

Answer all the questions.

1.	(a)	Desc	cribe a recognised fitness test to measure an individual's flexibility.	[1]	
	(b)	(i)	Outline three physiological factors that can restrict flexibility.	[3]	
		(ii)	Identify and describe three methods of improving flexibility.	[3]	
	(c)	Explain the physiological adaptations that could take place as a result of a structure flexibility programme.			
2.	(a)	(i)	What is the Glycaemic Index of foods?	[1]	
		(ii)	How could knowledge of the Glycaemic Index be of potential benefit to an indivundertaking a weight control programme?	vidual [3]	
	(b)	(i)	Explain the benefits of regular exercise within a weight control programme.	[4]	
		(ii)	Describe in detail the methods that could be used to monitor the effects of a w control programme.	eight [4]	
3.		" $V0_2$ max is the measure of aerobic power and a high $V0_2$ max is beneficial in any endurance activity."			
(a) Identify and describe a laboratory test to measure $V0_2$ max.			tify and describe a laboratory test to measure $V0_2$ max.	[2]	
	(b)	(i)	How can the use of a heart rate monitor be beneficial to an individual traini improve his/her $V0_2$ max?	ng to [3]	
		(ii)	Outline the physiological adaptations you would expect to find after an individual undertaken an aerobic training programme.	al has [4]	
	(c) Explain the procedures that have to be considered when fitness testin of your choice.		ain the procedures that have to be considered when fitness testing for a sporting acour choice.	tivity [4]	
4.	4. "Heart disease, cancers and strokes are becoming more prevalent in Britain."				
	Explain the influences that have caused such a rise and the individual lifestyle choices that can help prevent further increases in these diseases. [14]				