Name

CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

PHYSICAL EDUCATION

0413/01

Paper 1

May/June 2003

2 hours

Candidates answer on the Question Paper. No Additional Materials are required.

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name on all the work you hand in. Write in dark blue or black pen in the spaces provided on the Question Paper. You may use a soft pencil for any diagrams, graphs, or rough working. Do not use staples, paper clips, highlighters, glue or correction fluid.

Answer all questions.

The number of marks is given in brackets [] at the end of each question or part question.

If you have been given a label, look at the details. If any details are incorrect or missing, please fill in your correct details in the space given at the top of this page.

Stick your personal label here, if provided.

FOR EXAMINER'S USE								
Section A								
Section B1								
B2								
В3								
Total								

This document consists of 11 printed pages and 1 blank page.

Section A

Answer all questions in this section.

1	What is meant by the term leisure time?	
		[1]
2	Describe the meaning of the term fitness .	
		[1]
3	Define the term amateur sportsman.	
		[1]
4	What extreme body type would you associate with a sumo wrestler?	
		[1]
5	Give one reason why there is a steady increase in the demand for leisure facilities.	
		[1]
6	State two factors that can affect the performance level of an individual.	
	1	
	2	[1]
7	Give two ways of avoiding serious injury when participating in a sporting activity.	
		1
		[2]
8	What does the term VO₂ max mean? What would it help you measure?	
		[2]

9	Describe two ways in which the body loses heat during exercise.
	roa .
	[2]
10	Fitness can be split into two components, health related and skill related: name one aspect of each.
	Health related
	Skill related[2]
11	There are seven elements required for a balanced diet. Name three of these elements and the effect they have on the body.
	1
	2
	3
	[3]
12	Explain how the body reacts at the start of a sporting activity.
	[3]
	[Total : 20]

Section B

Answer all questions in this section.

Factors Affecting Performance

B1	(a)	Give one reason why a teacher/coach should give simple instructions to a young performer.							
			[1]						
	(b)	Nan	ne one fine and one gross motor skill.						
			[2]						
	(c)		en learning a complex skill describe two principles that need to be followed by the ch to ensure it is learnt correctly.						
	(d)	Ove	r arousal can have a negative effect on a sportsperson's performance:						
		(i)	explain why this happens;						
		(ii)	how can it be overcome?						
			[3]						

- **(e)** There could be a number of reasons why a performer takes banned substances:
 - (i) complete the table below to show the effects of using banned substances and the type of activity that a performer might be involved in. The first one, Steroids, has been completed for you.

Substance	Effect	Type of activity
Steroids	Helps increase the size and strength of muscles, speeds recovery from injury and training.	Power activities
Diuretics		
Stimulants		
Tranquillisers/ Beta blockers		
Analgesics		
		[4]
	a method of testing that is frequently used to ubstances.	prevent the illegal use of

describe a method of testing that is frequently used to prevent the illegal use of banned substances.

[1]

(f)	Des	Describe the FITT principle of training.								
		[2]								
	Exp	lain how the FITT principle might be used in the planning of a six week programme								
	(i)	a male aged 40 who has not taken part in a great deal of physical activity for some time and is trying to improve his general fitness;								
	(ii)	an active male aged 20 who is preparing for a long distance run.								
	,									
		[5]								

[Total : 20]

Health, Safety and Training

B2	(a)	Give	e one feature of physical well-being.
			[1]
	(b)	Cho	ose one sporting activity and name two essential safety rules for it.
		Acti	vity:
		1	
		2	[2]
	(c)	Des	cribe two effects long-term training can have on the body.
			[2]
	(d)	The	RICE method of treatment is often used to treat injuries.
		Ехр	lain
		(i)	what is meant by RICE;
			[1]
		(ii)	what type of injury this would be used to treat.
			[2]

(e) Choose one of the following training methods:

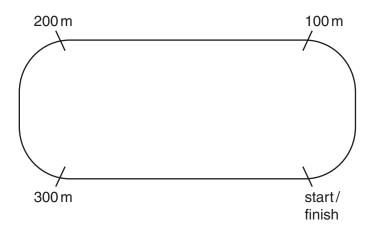
Fartlek training, Continuous training, Aerobics

Describe:

- (i) the basic principle of this method;
- (ii) advantages of using such a method;
- (iii) disadvantages of using this method.

Trail	ning Method
(i)	
	[1]
	[2]
(iii)	
	[2]
	[Z]

(f) A 400 metre runner starts a race and covers the first 100 metres at a steady pace, then gradually increases the pace between 100 – 200 metres. At 200 metres he increases his speed to almost maximum, maintains this until 300 metres, and during the last part of the race he tries to maintain this pace.



9 Describe the changes in respiration that will take place during the race; (ii) the effects this will have on the athlete during the race; (iii) the effects immediately after the athlete completes the event.

[Total: 20]

[7]

Reasons and Opportunities for Participation

В3	(a)	Describe one way in which a sportsperson may be able to participate full time whilst retaining his amateur status.								
		[1]								
	(b)	Name two advantages for a sponsor when they support an event.								
		[2]								
	(c)	Give two factors that can determine the development of excellence in a performer.								
		[2]								
	(d)	Referees are vital in sports matches/events. In what ways has technology affected their role?								
		[3]								

(e)	facil											ng sports pment for
												[5]
												[0]
(f)	In th	ne past, v	wome	en did	not par	ticipate	widely in	sport/p	hysical	recreati	on.	
	(i)	Explain	why	this w	as so.							
				•••••								
				•••••								
												[3]
	(ii)	What r				nts hav	e encou	ıraged	more v	women	to part	icipate in
		•••••		•••••								
												[4]

[Total : 20]

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