

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

CANDIDATE NAME					
CENTRE NUMBER			CANDIDATE NUMBER		

6035284951

PHYSICAL EDUCATION

0413/01

Paper 1 May/June 2007

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.

You may use a soft pencil for any diagrams, graphs or rough working.

Do not use staples, paper clips, highlighters, glue or correction fluid.

DO NOT WRITE IN ANY BARCODES.

Answer all questions.

At the end of the examination, fasten all your work securely together.

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

For Exam	iner's Use
Section A	
B1	
B2	
ВЗ	
Total	

This document consists of 12 printed pages.



Section A

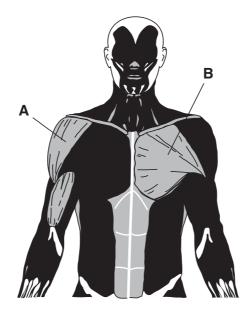
For Examiner's Use

Answer all questions in this section.

1	What is meant by the term somatotyping?	
	[[1]
2	Give one reason why there has been a steady increase in the number of leisure facilities built in recent years.	es
3	Name one activity that would be suitable for an extreme ectomorph.	
	[
4	Describe one feature of physical well-being.	
	[
5	Describe one effect that lactic acid has on a performer's muscles.	
6	Private companies find it difficult to make a profit from running swimming pools. Give two reasons why this is the case.	vo
	[[2]

7 Name the muscles marked **A** and **B** in the diagram below.





	Α	
	В	[2]
8		cribe two actions that you could take when applying first aid treatment to someone ering with a blister.
		[2]
9	A ba	alanced diet is essential for a healthy lifestyle.
	(a)	What is the benefit of fibre as part of a diet?
		[1]
	(b)	Name a food that is high in fibre.
		[1]

10	Give two harmful effects of consuming large quantities of alcohol on the health of an individual.	For Examiner's Use
11	Name an indoor sporting activity	
• •	Name an indoor sporting activity.	
	(a) Describe one potential danger that could occur when playing the activity.	
	[1]	
	(b) Describe how you would overcome this danger.	
	[1]	
12	Some performers hope to play at the highest level. Describe three external factors that could determine if a performer plays at the highest level in their sport.	
	[3]	
	[Total: 20]	

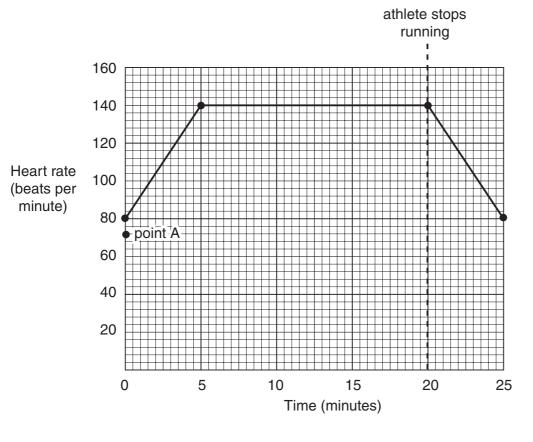
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Section B

Answer all questions in this section.

B1	(a)	What is meant by the term <i>motivation</i> ?
		[1]
	(b)	Anxiety can cause a reduction in the level of performance. Describe two ways in which a performer can overcome this difficulty.
		[2]
	(c)	Many activities are made up of a range of open and closed skills. In a named activity, describe one skill that is near the open and one near the closed extremes of the continuum.
		Activity
		open skill
		closed skill[2]

(d) The graph below shows the heart rate of a young performer running on a flat track.



(i)	What is	the	performer's	resting	heart rate'	?
-----	---------	-----	-------------	---------	-------------	---

[1]

- (ii) After training, the performer improves his fitness and lowers his resting heart rate (point A). Complete the graph, from point A, showing the improved level of fitness if he repeated the same run. [2]
- (iii) Give one reason why these changes have taken place.

(e) The table below shows types of movement, a key feature and where the type of movement might occur. Some information has been completed in the table. Complete the table by writing in the missing details.

Key features

Movement of a limb

Joint

Knee

Elbow

Types of movement

Flexion

		away from the central axis of the body		
	Extension		Knee Elbow	[4]
f) (i)	What does the multi-s	tage fitness test measure	9?	[+]
(ii)	Describe how you wou	uld carry out this test. Inc	lude details of any equip	
()				
(iii)	Describe another test	which will assess the sar	me component of fitness	
				[3]

Health, Safety and Training

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B2	(a)		athlete takes part in a sprinting event. What will happen to the athlete when an gen Debt occurs?
			[1]
	(b)	that	athlete takes part in a regular training programme for a number of months. He finds his performances during training decreases. Describe two reasons why this might pen.
			[2]
	(c)	Cor	nplete the following equation.
		Glu	cose + Oxygen → Energy + + Water [1]
		Nar of it	ne which respiration system this equation describes and explain one key feature.
			[1]
	(d)	(i)	Describe two factors that determine how much energy a person needs in their daily life.
			[2]
		(ii)	An athlete preparing for a long distance running event will often use his/her diet to increase energy levels immediately before the event. Name and describe this process.
			[1]

(e)	When a performer takes part in exercise the body generates heat which is lost through evaporation and radiation.		
	(i)	Explain how these two processes take place.	
		Evaporation	
		Radiation	
		[3]	
	(ii)	Some outdoor sports take place in cold, wet conditions and in such cases a performer's body temperature can drop. Explain how the body reduces the effect of playing in such cold conditions.	
		[2]	

(f)		athlete wants to improve his physical fitness in preparation for a long distance running nt. He decides to use a Circuit Training programme to help him prepare.	For Examiner's Use
	(i)	Describe two key elements of Circuit Training.	
		[2]	
	(ii)	Choose two of the principles of training and describe how they would affect the planning of the Circuit Training.	
		[2]	
((iii)	What are the advantages of using a Circuit Training programme?	
		[2]	
	(iv)	What alternative training method could the athlete use to get ready for the event?	
		[1]	
		[Total: 20]	

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Reasons and Opportunities for Participation in Physical Activity

В3	(a)	Define the term <i>physical recreation</i> .
		[1]
	(b)	Give ${\bf two}$ reasons why where you live can influence the types of activities in which you participate.
		[2]
	(c)	Describe two ways that sporting opportunities, for young people, can be improved through links between schools and clubs.
		[2]
	(d)	There has been an increase in the number of sportsmen and women becoming professional performers. Describe some of the factors that have allowed this increase to arise.
		[3]

(e)		e amount of sport shown on television has increased greatly in recent years. Give sons why this high level of exposure can have a negative effect on a sport.	For Examiner's Use
		[5]	
(f)	The	ere has been an increase in the number of women participating in sport in recent years.	
	(i)	What factors have contributed to this increase in participation?	
		[5]	
	(ii)	Despite the increase in female participation, more girls than boys stop taking part	
		in sport immediately after they leave school. What reasons can you give for this?	
		[2]	
		[Total: 20]	

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