



UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

CANDIDATE NUMBER			

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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.

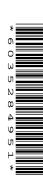
At the end of the examination, fasten all your work securely together.

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

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

This document consists of 12 printed pages.



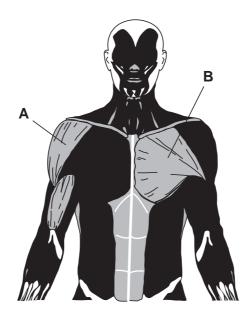


Section A

2	1
Section A	OC O
Answer all questions in this section.	
Section A Answer all questions in this section. at is meant by the term somatotyping?	
e one reason why there has been a steady increase in the number of leisure fact in recent years.	cilities
	[1]
ne one activity that would be suitable for an extreme ectomorph.	
	[1]
scribe one feature of physical well-being.	
	[1]
scribe one effect that lactic acid has on a performer's muscles.	
	[1]
rate companies find it difficult to make a profit from running swimming pools. Give sons why this is the case.	e two
	[2]

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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]]

the health and cannon de con

10	Give two harmful effects of consuming large quantities of alcohol on the health individual.
	[2]
11	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.

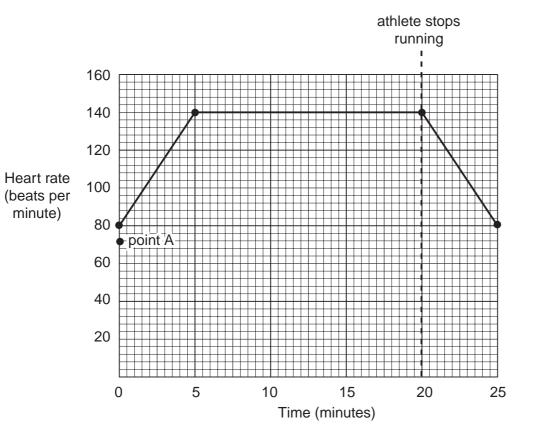
Factors Affecting Performance

В1

(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]

of trace and the trace of the t

(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]

(111)	Give one reason why these changes have taken place.
	•
	[4

www.PapaCambridge.com (e) The table below shows types of movement, a key feature and where the movement might occur. Some information has been completed in the table. Comp

Types of movement	Key features	Joint
Flexion		Knee Elbow
	Movement of a limb away from the central axis of the body	
Extension		Knee Elbow

the table by writing in the missing details.

[4] (i) What does the multi-stage fitness test measure? (ii) Describe how you would carry out this test. Include details of any equipment used. (iii) Describe another test which will assess the same component of fitness.

Health, Safety and Training

		8	1
ealth,	Safe	ty and Training	Ca
2 (a)		by and Training athlete takes part in a sprinting event. What will happen to the athlete when the second occurs?	
(b)	that	athlete takes part in a regular training programme for a number of months. He fir his performances during training decreases. Describe two reasons why this mi pen.	
			[2]
(c)	Cor	nplete the following equation.	
	Glu	cose + Oxygen → Energy + + Water	[1]
	of it	ne which respiration system this equation describes and explain one key feat	ure
			[1]
(d)	(i)	Describe two factors that determine how much energy a person needs in their dalife.	aily
	(ii)	An athlete preparing for a long distance running event will often use his/her of to increase energy levels immediately before the event. Name and describe to process.	diet
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		en a performer takes part in exercise the body generates heat which is lost to coration and radiation. Explain how these two processes take place. Evaporation	
		20	
(e)		en a performer takes part in exercise the body generates heat which is lost to coration and radiation.	Mr.
	(i)	Explain how these two processes take place.	To
		Evaporation	COM
		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.	

	The state of the s
	10 M. P.
	athlete wants to improve his physical fitness in preparation for a long distance nt. He decides to use a Circuit Training programme to help him prepare. Describe two key elements of Circuit Training.
(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 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]

	amount of sport shown on television has increased greatly in recent years ons why this high level of exposure can have a negative effect on a sport.	100
		a.
• • • •		
• • • •		
	[5]	
h۵	re has been an increase in the number of women participating in sport in recent years.	
IIC	Te has been an increase in the number of women participating in sport in recent years.	
)	What factors have contributed to this increase in participation?	
	[5]	
)	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?	

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