Centre Number

Candidate Number

Name

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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

PHYSICAL EDUCATION

0413/01

Paper 1

May/June 2006

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.

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	NER'S USE
SECTION A	
B1	
B2	
В3	
TOTAL	

Section A

Section A Answer all questions in this section. Afine the term fitness.	1
Section A	S.C.
Answer all questions in this section.	1
fine the term fitness.	
ve one reason why it is important for a sport to attract media attention.	
	[1]
nen exercising, the body's temperature will increase. Describe one way in which the ntrols this.	
ve an example of a pivot joint.	
ve one psychological benefit that participating in exercise could have on an individua	
art from an individual's interest in a particular sport or activity, give two factors that ect what people choose to do in their leisure time.	
ame two different activities in which participants may feel the need to take an iluretic substance.	legal
	[∠]

3 Many Day	For Examiner's
Give two reasons why it is important to have a balanced diet. [2]	Use
[2]	se.co
There have been a number of campaigns to encourage women to participate in sport. Describe two of the problems that these campaigns have tried to overcome.	
[2]	
The body will respond to arousal by producing adrenalin. Describe two other physiological responses that the body will make when aroused.	
[2]	
Name two situations that could result in injury during an indoor sports activity.	
[2]	
Highly paid professional sportsmen and women can now take part in the Olympic Games. Give three reasons why they participate for a medal rather than money.	
[3]	
[Total: 20]	

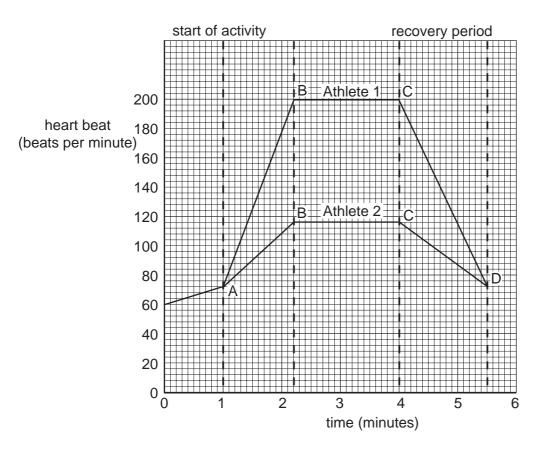
Section B

Factors Affecting Performance

В1

	the state of the s
	4
	Section B
	Answer all questions in this section.
tors	4 Section B Answer all questions in this section. Affecting Performance
(a)	Give an example of an exercise that would help develop the efficiency of the latissimus dorsi muscle.
	[1]
(b)	Apart from providing support and movement, name two other functions of the skeleton.
	[2]
(c)	The information processing model has an input and an output. What is meant by the terms input and output?
	, , , , , , , , , , , , , , , , , , , ,
	[2]
(d)	Timing and co-ordination are elements of skill related fitness. Name one other element and describe a test to measure it.
	Element
	Description
	[3]

(e) The graph below shows the heart rate of two athletes performing an event of same time period.



Athlete 1 performs at a very high level of intensity which requires him to use the maximum effort.

Athlete 2 performs below his maximum effort.

(i)	What causes the increase in heart rate before the start of the activity? (point A)
	[1]
(ii)	There is a difference between the two athletes' heart rate at B and at C. Give one reason for this.
	[1]
(iii)	The graph shows the athletes stop performing at C, after which the heart rate decreases. Explain the reason for this.
	[1]

	6	For Examiner'
(iv	by) Explain why Athlete 2 could not maintain a high level of effort for a properiod of time.	Use Use
		age
6		
()	v) The recovery period for both athletes is the same. What does this indicate about their fitness levels?	
	[1]	
So	ome skills are performed in a continually changing environment.	
(i) What are these skills called?	
	[1]	
(i	ii) When learning a new skill, describe how the coach will ensure that effective learning takes place.	
(i		
	learning takes place.	

[Total: 20]

Health, Safety and Training

		www.
Hea	alth, S	Safety and Training
B2	invo	Safety and Training mas and Stephen are both starting to train for different types of activities. Thomas lived in an endurance activity whilst Stephen takes part in activities that require explosive night.
	(a)	Tham's an activity that modia typically require expired to energial
	(b)	Both Thomas and Stephen use weight training as part of their training programme. What would be the difference in overload (number of repetitions and the size of the weights) needed for Thomas and Stephen to improve in their different activities?
	(-)	Stephen
	(c)	When they go to the gymnasium it is important that they warm up correctly to prevent injury. Describe two effects of a warm up.
		[2]
	(d)	Both choose to use Plyometric Training in their programme. (i) Describe a key feature of Plyometric Training.
		(ii) Give an example of Plyometric Training.
		(iii) Explain a key safety factor that you would need to apply to this type of training, particularly in the early stages, to prevent injury.

and describe one feature of each.

(e) Their training develops different types of muscle fibres. Name two types of muscle fibre

......[2]

	nn
8	Exa
Thomas and Stephen continue to train for a substantial pe	eriod of time.
(i) Name two long term training effects of exercise on th	eriod of time. ne heart. [2]
(ii) Name two long term training effects on the respirator	ry system.
	[2]
Both students are very enthusiastic about their training bu	ut tend to overtrain.
(iii) What would be the physical signs that they are overtr	raining?
	[3]

Reasons and Opportunities for Participation in Physical Activity

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		9 Addy	1
ea	son	s and Opportunities for Participation in Physical Activity	Col
33	(a)	s and Opportunities for Participation in Physical Activity Give one example of a natural outdoor sport in the countryside. How has it be adapted for urban (city) areas?	
	(b)	Schools play a very important part in promoting and encouraging sport and physic activity. Describe two ways in which a school can achieve this objective.	cal
			[2]
	(c)	If a television company decided to withdraw their coverage of an event, what negative effects could this have on the event?	ve
			[2]
	(d)	In many sports, ethnic minority groups are under represented. Give three reasons this.	for
			[3]
	(e)	It is often the media who create 'sportstars' in many different sports.	
		(i) Explain why this happens.	F43
		(ii) Give examples of the negative effects on the individual.	[1]
			 [2]
		(iii) Give examples of the positive effects for the sport.	
			[4]

(f) A new manager of a sports centre needs to check how suitable the facilities are

maximum access for everyone.

www.PapaCambridge.com (i) Identify two different types of physical disabilities and describe the arrangements that need to be made to ensure ease of access for everyone. (ii) Apart from staging extra sessions and improving access, how could you encourage greater participation for performers with physical disabilities? [7]

[Total: 20]

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