Name

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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

PHYSICAL EDUCATION

0413/01

Paper 1

May/June 2005

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 EXAM	NER'S USE
Section A	
B1	
B2	
В3	
Total	

Section A

2 Section A Answer all questions in this section. Name one function of the skeleton.	
Section A	Ca
Answer all questions in this section.	13
Name one function of the skeleton.	
Give one definition of 'social well being'.	741
What type of muscle tissue would produce better results in long endurance activities?	
Name one advantage of Isotonic Training.	
Identify a physical recreation activity aimed specifically at encouraging more participation women.	
When learning a new skill give two means by which you can gain information relating to the skill/activity you are involved in.	
[[2]
There are six components of Skill Related Fitness: give two of them.	
	[2]

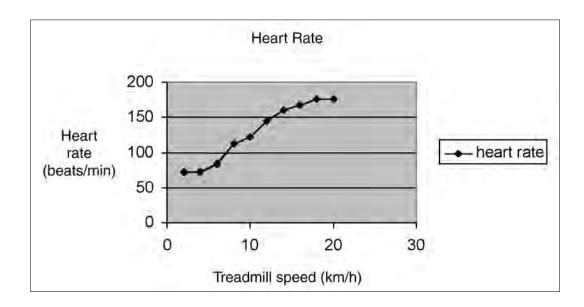
	Mary
	4
12	In what ways can television companies affect the popularity of sport?
	[3]
	[Total: 20]

Factors Affecting Performance

		www.	
		5 Section B	For Examiner's
		Section B	C
		Answer all questions in this section.	enbridge.
Fac	tors	Affecting Performance	COM
В1	(a)	What effect does adrenalin have on the body?	
			[1]

(b) Below are charts showing the heart rate of a person running on a treadmill. The heart rate increases as the speed of the treadmill increases, then the rate of increase slows, despite the participant continuing to run. Explain why this might happen.

Treadmill speed (km/h)	2	4	6	8	10	12	14	16	18	20
Heart rate (beats/min)	72	72	85	112	122	144	158	174	178	178



											[OI

to p	n produces outstanding performances when training but fails to reproduce en participating in a competition. Give two reasons why Tom may be finding it diversorm at his best in a competition.
 l) (i)	Give an example of a type of synovial joint and its location.
(ii)	Describe the role of the synovial membrane.
(iii)	What is the role of synovial fluid?
e) (i)	Describe three long term effects of exercise on the respiratory system.
	[3]
(ii)	How does testing and measuring help to improve performance?

	4	
	T WAND	For
	2	Examiner's
(f)	Athletes can only perform at their best for a limited period of time during the a season. Describe the type of preparation programme that would need to take plathe months before a major championship to allow an athlete to peak at the right time.	dania.
		Se. CO.
		13
	[7]	
	[Total: 20]	

Health, Safety and Training

B2

	8	1
Safe	ty and Training me the element in a diet that will enable the body to repair muscle tissue. scribe two measures that a participant might take in order to keep safe from initial take in order to keep safe from initial take.	Co
Nai	ne the element in a diet that will enable the body to repair muscle tissue.	
		.[1]
dur	scribe two measures that a participant might take in order to keep safe from injuring an activity, apart from following the rules. Apply your answer to a named physic vity.)
Act	ivity	
		.[2]
	er a period of exercise, Lactic Acid can build up in the muscles. What are the physicts the performer would experience from this build-up of Lactic Acid?	cal
	phen is preparing for a sprinting event. Choose one type of training and describe tefits that he would gain from it.	ine
Tra	ning	
		.[3]
Afte larg	er a long-term training programme, a performer's heart will become stronger a er.	ınd
(i)	Name one other effect that long term training will have on the performer's heart.	
		.[1]
(ii)	Describe one way in which the heart rate could be used to measure a improvement.	any
		[1].

	(111)	heart rate of the performer?
		[1]
	(iv)	To ensure that the performer is working at an appropriate level of intensity, how could you use his/her heart rate to help plan a training programme? Use a performer who is starting a training programme to illustrate your answer.
		[2]
f)	Two perfo	performers participate in different activities using different energy systems to orm effectively.
	(i)	Describe the key features of the different activities that they participate in.
		[2]
	(ii)	Describe the differences between the two energy systems used.
		[5]

Reasons and Opportunities for Participation

			The state of the s
			10
Rea	son	s an	d Opportunities for Participation
ВЗ	(a)		d Opportunities for Participation e one example of how health care has helped improve recreational opportunities ple.
	(b)		me one voluntary organisation and describe why it might meet the needs of the local nmunity better than a large private company.
	(c)	•	urt from keeping fit give two different reasons why an adult might take part in sical activity.
			[2
	(d)	(i)	Give an alternative means of financial support for a young elite performer who does not wish to become professional in his/her sport, but wants to continue to participate at the highest level.
			[1
		(ii)	What could be the benefits of this alternative for the performer?
			[2

	11
	11 16 year old performer is seeking to perform at the highest level. Describe a value of the him/her to achieve this aim.
	[5]
 I 0	cal clubs have a key role in enabling people to participate in their chosen sport/
act	tivity. To enable the club to function properly it will have an organising committee.
(i)	Describe two key roles on such a committee.
	Role
	Dolo
	Role
	[2]

	12 WWW. Day
(ii)	How might the club go about raising money and how could this differ from private sports organisation?
	[4]
(iii)	Apart from raising money, name one aim the club might have, to ensure that it continues to prosper.
	[1]
	[Total: 20]

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