



Cambridge International Examinations

Cambridge International General Certificate of Secondary Education

CANDIDATE NAME				
CENTRE NUMBER		CANDIDATE NUMBER		

PHYSICAL EDUCATION

0413/12

Paper 1

May/June 2017

1 hour 45 minutes

Candidates answer on the Question Paper.

No Additional Materials are required.

MODIFIED LANGUAGE

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 an HB pencil for any diagrams or graphs.

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

DO NOT WRITE IN ANY BARCODES.

Section A

Answer all questions in this section.

Write your answers in the spaces provided on the Question Paper.

Section B

Answer all questions in this section.

Write your answers in the spaces provided on the Question Paper.

Electronic calculators may be used.

You may lose marks if you do not show your working or if you do not use appropriate units.

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.

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



Section A

Answer **all** the questions in the spaces provided.

1	State one feature of a closed skill.	
		[1
2	State the type of movement at the knee when the hamstrings contract.	[1
3	Suggest one factor that determines a young person's choice of physical activity.	[1
		[1
4	Describe the role of cartilage in a synovial joint.	
		[1
5	Name one example of safety equipment that can be used to reduce the chances of injury in gactivities.	jame
		[1
6	State two outdoor and adventurous activities that could take place in a rural setting.	
		[2
7	Suggest two benefits of sporting events being broadcast on the radio.	
		[2

State two factors that may affect the energy requirements of a sports performer.
Suggest two ways that a school can encourage participation in physical activities.
Explain why when arousal levels become too high the level of a performance may reduce.
Explain how the codes of behaviour that performers are expected to follow can ensure games played safely.

[Total: 20]

Section B

Answer **all** the questions in the spaces provided.

Unit 1 Factors affecting performance

12	(u)	Explain why leedback is in	mportant when learning a new skill.	
				[2
			······	
	(b)	Complete the table to iden	ntify the types of synovial joints in the arm.	
	(b)	Complete the table to iden	ntify the types of synovial joints in the arm. type of synovial joint	
wri		·		_
wri	st	·		

[3]

(C)	Explain, using examples, now three principles of goal setting can be used in a named sp	ort.
	sport	
	principle 1	
	principle 2	
	principle 3	
		[3]
(d)	Explain, using a movement at the elbow, the meaning of the terms <i>prime mover</i> , <i>antagol</i> and <i>synergist</i> .	nist
	movement	
	prime mover	
	antagonist	
	synergist	
		[4]
(e)	State three possible advantages of being a mesomorph in a named sport.	
	sport	
	advantage 1	
	advantage 2	
	advantage 3	
		[3]

(f)	(i)	Describe the process of gaseous exchange in the lungs.	
			[3]
	(ii)	Suggest two advantages a performer gains from more efficient gas exchange in the lungs.	ne
			[2]
(g)	(i)	Name a suitable test to measure flexibility.	
			[1]
	(ii)	Suggest one possible reason why females perform better than males in flexibility te	sts.
			[1]
	(iii)	Describe exercises that could improve flexibility.	
			[3]

[Total: 25]

Unit 2 Health, safety and training

13	(a)	State one advantage and one disadvantage of continuous training.	
		advantage	
		disadvantage	
			[2]
	(b)	A lack of water causes dehydration.	
		Suggest the effects of dehydration on a performer's ability to perform effectively.	
			[2]
	(c)	Suggest why performers are at greater risk of injury once they become tired during physic activity.	cal
			[3]

(d)	State three environmental factors that could put a performer at risk of injury during an outder team game and explain how each risk could be reduced.	oor
	environmental factor 1	
	explanation	
	environmental factor 2	
	explanation	
	environmental factor 3	
	explanation	
		[3]
(e)	State what is meant by an isometric muscle contraction and give examples from three differences of when isometric contractions take place.	ent
	meaning	
	sport 1	
	example	
	sport 2	
	example	
	sport 3	
	example	

(f)	A perf	ormer can choose to use resistance training as part of their training programme.
	(i)	Suggest two examples of types of resistance training.
		rol
		[2]
	(ii)	Describe two benefits of resistance training to a performer.
		[2]
		[-]
	(iii)	Explain two ways that a performer can use training principles to ensure progress is made when resistance training.
		[2]
		[Total: 20]

Unit 3 Reasons and opportunities for participation in physical activity

14	(a)	Suggest two reasons why a person's age can affect the type of sports they choose to play	y.
			[2]
	(b)	The Commonwealth Games in 2014 included disability events in the athletics programme	-
		Describe the benefits of having disability events in global events.	
			[3]
	(c)	Describe some of the benefits of being part of a school sports team.	
			[4]

(d)	Describe how the internet has increased the understanding of, and participation in, sport.	
		[6]

[Total: 15]

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