



Cambridge International Examinations

Cambridge International General Certificate of Secondary Education

CANDIDATE NAME				
CENTRE NUMBER		CANDIDATE NUMBER		

PHYSICAL EDUCATION

0413/12

1 hour 45 minutes

Paper 1 October/November 2017

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 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 14 printed pages and 2 blank pages.

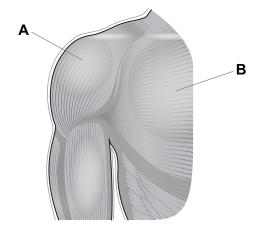


Section A

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

1	State one type of motivation.	
		F41
		[1]
2	Describe one feature of physical well-being.	
		[1]
3	Describe and henefit of sports events being shown on television for a viewer	
J	Describe one benefit of sports events being shown on television for a viewer.	
		[1]
4	Name one example of a hinge joint from the body.	
		[1]
5	Describe one long-term effect on the body if energy intake is greater than energy need.	
		- 4 -
		[1]
6	State one example of a physical activity that can take place in a natural environment.	
		[1]

7 Name the **two** muscles labelled **A** and **B**.



	A	
	В	[2]
8	State two common types of sports injuries and describe a different treatment for each.	
	injury 1	
	treatment	
	injury 2	
	treatment	[2]
9	Describe three reasons why a coach should regularly test the fitness of a performer.	
		[3]

10	Describe three benefits of a cool down.	
		[3]
		اما
11	Suggest, using four physical activities, different ways that technology helps performers to ach excellence.	ieve
	activity 1	
	and the Co	
	activity 2	
	activity 3	
	activity 4	
		[4]

[Total: 20]

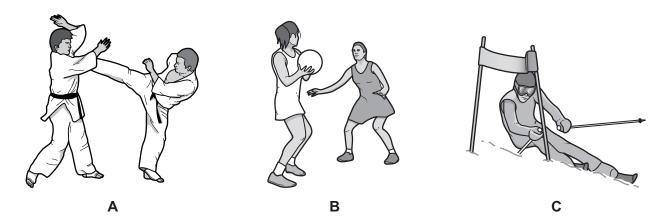
Section B

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

Unit 1 Factors affecting performance

12	(a)	Explain why closed skills are usually easier to learn than open skills.	
			[2]
	(b)	Describe how arousal can affect performance.	
			[3]

(c) The diagrams, A to C, show performers from different sports.



For each sport, name a different component of skill-related fitness required and give reasons for your answers.

A	
B	
C	
	[3]

(d) Complete the table to show a different type of movement possible at each joint. Give an example of a benefit to a performer of the named type of movement at the shoulder.

joint	type of movement	example of a benefit to a performer
knee		able to kick a ball in football
shoulder		

(e)	(i)	Describe gaseous exchange in the lungs.	
			[2]
	(ii)	Describe the long-term effects of regular aerobic training on the respiratory system	٦.
			[2]
(f)	(i)	Suggest two factors a coach should consider when planning a six-week exercise programme for a person who has a low level of fitness.	
			[2]
	(ii)	Describe the short-term improvements that could result from using the exercise programme.	
			[2]

(g)	Elite a	thletes often spend periods of time living and training at altitude.	
	(i)	State the component of fitness that is most likely to improve as a result of periods time spent at altitude.	of
			[1]
	(ii)	Explain the long-term benefits to an athlete of living and training at altitude.	
			[2]
	(iii)	Suggest difficulties an athlete may experience when living and training at altitude.	
	, ,		
			[3]
		[Total	: 25]

Unit 2 Health, safety and training

13	(a)	Describe now playing sports can contribute to a person's mental well-being.	
			[2]
	(b)	The diagram shows a school gym with different pieces of equipment.	
		Suggest three safety instructions a teacher should give to students when carrying or movequipment.	ving
		instruction 1	
		instruction 2	
		instruction 3	[3]
	(c)	Suggest the main differences in the diet required by an elite sprinter and an elite endurar athlete and give reasons for your answer.	ıce
			[2]

(d)	Descr	ibe two ways that a participant can reduce the risk of injury to themselves.	
			[2]
(e)	(i)	Name a training method that should be used by a person who is preparing for a 5000-metre (5K) charity run and has a low level of fitness.	
			[1]
	(ii)	State the advantages and disadvantages of using this type of training for the person	n.
		advantages	
		disadvantages	
		disadvantages	
			[4]

(f)	Trainir	ng can involve different types of muscle contraction.	
	(i)	Name two types of muscle contraction.	
			[2]
	(ii)	Describe the advantages of using exercises to improve one named type of muscle	;
		type of muscle contraction	
		advantages	
			[2]
	(iii)	Describe, in two named sports, a different example that demonstrates the use of type of muscle contraction by a performer.	one
		type of muscle contractionsport 1	
		example	
		sport 2	
		example	
			[2]

Unit 3 Reasons and opportunities for participation in physical activity

14	(a)	Suggest the effects of regular television coverage on sports.	
			[2]
	(b)	Scout groups are an example of a voluntary organisation providing leisure opportunities for young people.	r
		Explain the benefits of voluntary organisations.	
			[3]

(c) The picture shows a young person sailing.



Suggest reasons why they have chosen to take part in this activity.	
	[4]

Explain why schools should provide physical activities through both lessons and extra-curric activities.	cular
	[6]

[Total: 15]

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