

Cambridge IGCSE[™]

CANDIDATE NAME					
CENTRE NUMBER			CANDIDATE NUMBER		

635474807

PHYSICAL EDUCATION

0413/11

Paper 1 Theory

May/June 2021

1 hour 45 minutes

You must answer on the question paper.

No additional materials are needed.

INSTRUCTIONS

- Answer all questions.
- Use a black or dark blue pen. You may use an HB pencil for any diagrams or graphs.
- Write your name, centre number and candidate number in the boxes at the top of the page.
- Write your answer to each question in the space provided.
- Do **not** use an erasable pen or correction fluid.
- Do not write on any bar codes.
- You may use a calculator.
- You should show all your working and use appropriate units.

INFORMATION

- The total mark for this paper is 100.
- The number of marks for each question or part question is shown in brackets [].

This document has 16 pages. Any blank pages are indicated.

	tate two classifications of bones.						
۷			[2]				
(a)	Des	scribe two requirements for each of the following:					
	goo	nd mental health and well-being					
	god	od social health and well-being.					
	1						
	۷						
			[4]				
(b)	Car	bohydrates are an important nutrient in a balanced diet.					
	(i)	State two other nutrients and describe a different function of each nutrient.					
		nutrient 1					
		function					
		nutrient 2					
		function					
			[4]				
	(ii)	Explain why different people may have different energy needs.	נד.				
			10.				

[Total: 10]

3 The photograph shows a volleyball match. Volleyball players require coordination, power and cardiovascular endurance/stamina.



(a) Identify **three** components of fitness, other than coordination, power and cardiovascular endurance/stamina, that would benefit a volleyball player.

Describe an example of how each component is used in a volleyball match.

component of fitness 1

example

component of fitness 2

example

component of fitness 3

example

[6]

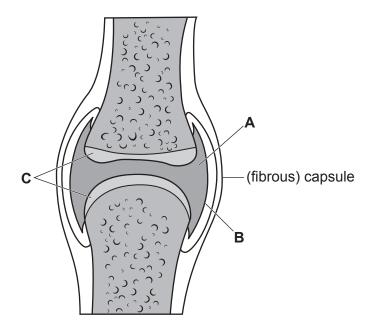
(b) (i) State a type of prohibited performance-enhancing drug (PED) that a volleyball player may choose to take and describe how this may enhance performance.

type of PED

description

	(ii)	State two possible disadvantages for a performer, other than health implications, o taking prohibited performance-enhancing drugs (PEDs).
		1
		2
		[2
		[Total: 10
4	Skills ca	n be classified on different continua. One example of a continuum is fine and gross.
	(a) (i)	State two other continua used to classify skills.
		1 and
		2 and
	(ii)	The boxes show the positions of three different skills on the fine and gross continuum.
		Using the letters A , B and C identify the box representing each of the following skills or the fine and gross continuum:
		A chest-pass in basketball
		B shot-put throw in athletics
		C short putt in golf.
		fine
		[2
	(b) Exp	plain why some skills are classified as fine skills.
		[2
		[Total: 6

5 (a) The diagram shows a typical synovial joint.



Identify the components labelled A, B and C.

	A
	В
	C
	[3
(b)	Describe a named type of movement, other than rotation, that can occur at a ball and socke joint.
	type of movement
	description

[Total: 5]

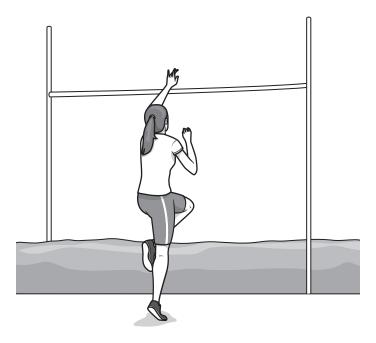
6 (a) Complete the table to compare the lumen size and wall thickness for the named blood vessels.

	lumen size	wall thickness
arteries		
capillaries		

[4]

(b)	Describe one function of valves in the heart.
	[1
	[Total: 5

7 (a) The diagram shows an athlete performing a high jump. This requires power to be generated in the legs.



(i)	Define power.
(ii)	Describe one named plyometric exercise that can be used to develop power in the legs.
	name of exercise
	description
	[2]

(iii)	Describe how to carry out a named fitness test for power.
	name of test
	description
	[4]
	e diagrams show the movement at the ankle and the position of the foot at the point of e-off.
lant	5-OII.
	A B
	A B
(i)	State the type of movement occurring at the ankle from A to B .
	[1]
(ii)	Name the agonist muscle and the antagonist muscle involved in the movement from ${\bf A}$ to ${\bf B}$.
	agonist
	antagonist
	[2]
(iii)	Name a different type of movement that can occur at the ankle. Describe an example from a named physical activity when this movement would take place.
	type of movement
	physical activity
	example

(iv)	Describe how a ligament injury could be caused at the ankle. Explain a named treat for this injury.						
	cause of injury						
	treatment						
	explanation						
	[3]						
	[Total: 15]						

8		scribe, using examples from a named physical activity, how technology has had a distive effect on officials, performers and the audience/spectators.	fferent						
	phy	hysical activity							
	offic	cials							
	perf	formers							
	the	audience/spectators							
			[3]						
9	(a)	Knowledge of performance is a type of feedback that can improve performance.							
		Describe two other advantages for a performer of knowledge of performance.							
		advantage 1							
		advantage 2							
			[2]						
	(b)	Suggest why extrinsic feedback may be of greater benefit than intrinsic feedback performer trying to learn a skill during the cognitive stage of learning.	for a						
			[2]						
		[דו	otal: 4]						

10	Suggest advantages and disadvantages for sport of increased income from television.
	advantages
	disadvantages
	[6]

11 Sketch and label a third-class lever.

12	(a)	Complete the table to identify two types of guidance and describe a different benefit of each
		type of guidance for a learner.

type of guidance	benefit

[4]

(b)	A performer	decides	to set	the	following	target
-----	-------------	---------	--------	-----	-----------	--------

•	improving	their	100-metre	time.
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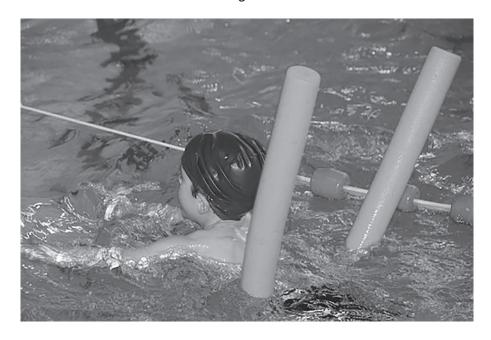
Identify **three** principles of SMARTER goal-setting that are **not** met by this target. Justify each of your answers.

principle 1
justification
principle 2
justification
principle 3
justification
[6]

[Total: 10]

13 The photograph shows a person learning to swim in a swimming pool.

learning to swim

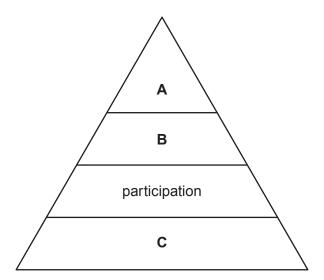


(a)	Describe two possible perceived risks for the person learning to swim.
	perceived risk 1
	perceived risk 2
	[2]
(b)	Describe two real risks for swimmers at a swimming pool and describe a strategy to reduce each risk.
	real risk 1
	strategy
	real risk 2
	strategy
	[4

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[Total: 6]

14 The diagram shows a sports development pyramid.



(a)	identify the levels labelled A, B and C.

Α	
R	
_	
C	
	[3]

	(b)	Describe three	characteristics	of the	participation	level	of the sports	development	pyramid
--	-----	----------------	-----------------	--------	---------------	-------	---------------	-------------	---------

1	
2	
3	
	[3]

[Total: 6]

15	(a)	Des	scribe four short-term effects of exercise.	
		1		
		2		
		3		
		4		
	(b)	(i)	Describe two different examples from a named games activity when a performe energy demand is mainly anaerobic.	[4] r's
			games activity	
			example 1	
			example 2	
				 [2]
		(ii)	Outline how energy is released during anaerobic respiration.	
				[2]
	(c)	Des	scribe how two factors may affect recovery after exercise.	
		1		
		2		
				 [2]

[Total: 10]

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