

# Cambridge IGCSE<sup>™</sup>(9–1)

CANDIDATE NAME					
CENTRE NUMBER			CANDIDATE NUMBER		

# 3570501924

## PHYSICAL EDUCATION

0995/12

Paper 1 Theory

May/June 2022

1 hour 45 minutes

You must answer on the question paper.

No additional materials are needed.

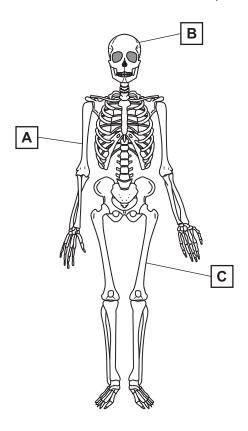
#### **INSTRUCTIONS**

- 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 [ ].

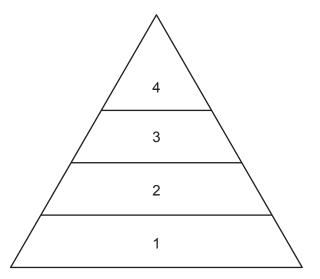
1 The diagram shows a human skeleton with bones labelled **A**, **B** and **C**.



Identify the bone labelled <b>A</b> .	[1]
o) Classify the bone labelled <b>B</b> .	
	[1]
Describe a function of the bone labelled <b>C</b> .	
	[1]
[Total:	3]

2	(a)	Describe <b>two</b> named types of anxiety.
		type of anxiety 1
		description
		type of anxiety 2
		description
		[4]
	(b)	Suggest a factor that could cause a performer to feel anxious during a physical activity.
		[1]
	(c)	Explain how <b>one</b> named relaxation technique may be used to reduce a performer's anxiety.
		technique
		explanation
		[2]
		[Total: 7]

3 The diagram shows the sports development pyramid.



(a)	Identify the levels of the sports development pyramid labelled 2 and 4.	
	level 2	
	level 4	 [2]
(b)	Describe <b>three</b> characteristics of involvement at the performance level.	
	1	
	2	
	3	
		 [3]
(c)	Suggest the role schools and education could play for performers at level 1 on the spo development pyramid.	rts
		[2]

[Total: 7]

4	State <b>two</b> parts of the RICE method for treating injuries and describe a different benefit of each treatment for a performer.
	part 1
	benefit
	part 2
	benefit
	[4]

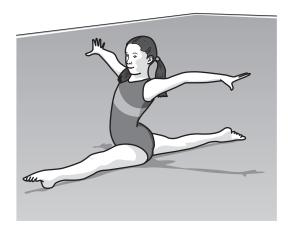
5 The diagram shows a rugby player using strength to tackle an opponent.



(a)	Des	scribe how to carry out a named test for strength.	
	nan	ne of test	
	des	cription	
			[4]
(b)	(i)	To improve strength some rugby players may use weight training as part of their training programme.	ing
		Explain <b>two</b> advantages of using this type of training for a rugby player.	
		1	
		2	
			[2]
			L-1

(ii)	Describe <b>two</b> safety considerations when taking part in weight training.
	1
	2
	[2]
	[Total: 8]

**6** The diagram shows a gymnast during a performance.



(a) Describe the following muscle contraction types, giving a different example of how each contraction may be used in gymnastics.

concentric muscle contraction
description
example
eccentric muscle contraction
description
example
isometric muscle contraction
description
example

[6]

(b) State two named types of movement possible at the ankle joint.

Describe a different example of how each type of movement may be used in a named physical activity.
physical activity
type of movement 1
example
type of movement 2
example

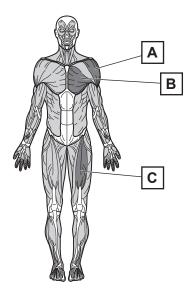
[4]

7

Spc	onsorship is needed to fund a global event such as the Olympic Games.
(a)	Suggest three advantages for sponsors of the Olympic Games.
	1
	2
	3
	[3]
(b)	Describe <b>three</b> advantages for performers representing the host nation at a global event.
	1
	2
	3
	[3]
(c)	Amateur and professional performers may compete against each other at the Olympic Games.
	Suggest <b>three</b> advantages that professional performers may have when competing against amateur performers.
	1
	2
	3
	[3]

[Total: 9]

8 The diagram shows the location of muscles in the body labelled A, B and C.



(a)	Identify the muscles <b>A</b> and <b>B</b> .	
	A	
	В	
		[2
(b)	Identify muscle <b>C</b> and describe its role during extension at the knee.	
	muscle C	
	role	
		[2
(c)		
	fatigue tolerance	
	force created.	
		[2

[Total: 6]

9	(a)	Identify <b>two</b> characteristics of the alveoli and explain how each characteristic enables gaseous exchange to take place.
		characteristic 1
		explanation
		characteristic 2
		explanation
	/b\	[4]
	(D)	Residual volume is a breathing volume.
		Describe <b>two</b> other named breathing volumes and state the effect of exercise on each volume.
		volume 1
		description
		effect of exercise
		volume 2
		description
		effect of exercise[6]

[Total: 10]

10

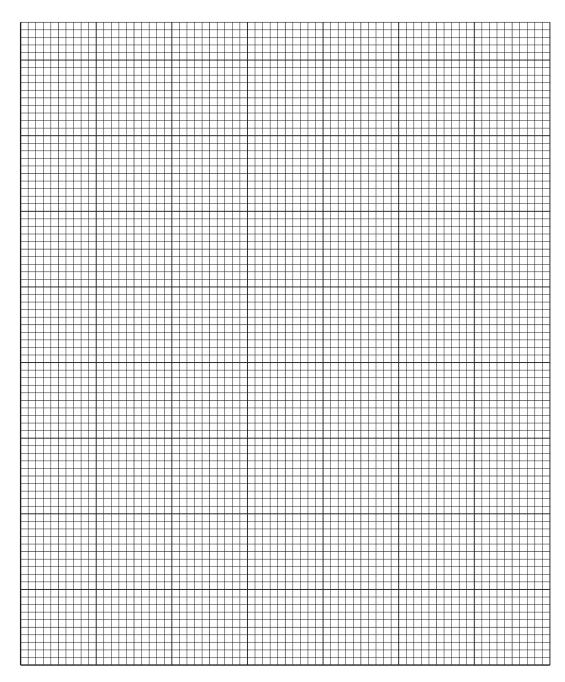
The	The quality of teaching and coaching can affect the skill level of a performer.					
(a)	Explain <b>four</b> other factors that could cause the skill level of performers to differ.					
	1					
	2					
	3					
	4					
	IA1					
	[4]					
(b)	Suggest <b>two</b> reasons why extrinsic motivation is important for a performer.					
	1					
	2					
	[2]					
	[Total: 6]					

11 The table shows the heart rate of a performer exercising and resting over a period of time.

time/minutes	0	1	2 (exercise starts)	3	4	5	6	7 (exercise ends)	8	9	10	11	12
heart rate beats per minute	64	64	72	90	115	125	125	125	110	85	70	64	64

(a) Using the data in the table, plot a graph of heart rate (vertical axis) against time (horizontal axis) on the grid provided.

Start your scale at 0,0.



heart rate beats per minute

time/minutes

(b) Draw a second line on the graph to show the heart rate of an elite performer completing the

( )	same training session.	[3]
(c)	Other than an increase in heart rate, describe <b>three</b> short-term effects of exercise.	
	1	
	2	
	3	
		101

[Total: 9]

**12** The diagram shows a beginner playing tennis.



Performers progress through the cognitive, associative and autonomous stages of learning when learning a new skill.

(a)	Explain, using a skill from tennis, a different characteristic of the performance of the skill at each of the following stages of learning.
	example of skill
	cognitive stage characteristic
	associative stage characteristic
	autonomous stage characteristic
	[3]
(b)	Short-term memory can only hold information for a short period of time compared to long-term memory.
	Compare <b>two</b> other differences between short-term memory and long-term memory.
	1
	2
	[2]

	(c)	(i)	Explain the concept of limited channel capacity (single-channel hypothesis).	
		(ii)	Suggest how an understanding of limited channel capacity may affect how a coprovides guidance to a performer.	
			[Tota	l: 7]
13	(a)		scribe, using different examples, how technology has improved the decision-making cials.	g of
		exa	mple 1	
			mple 2	
		exa	mple 3	
				 [3]
	(b)	Des	scribe <b>three</b> examples of negative impacts of using technology for a sport.	
		exa	mple 1	
		exa	mple 2	
			mala 2	
		exa	mple 3	
				[3]

14	(a)	Describe the relationship between health and fitness.
		[1]
	(b)	Explain how three different lifestyle choices may affect a person's physical health.
		1
		2
		3
		[3]
	(c)	Explain <b>two</b> positive effects that exercise and fitness can have on a person's mental health.
		1
		2
		[2]
		[Total: 6]
15	Des	scribe an example of each of the following class of levers being used in a named physical vity.
	phy	sical activity
	first	class lever example
	third	d class lever example
		[2]

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