

Please write clearly ir	ו block capitals.
Centre number	Candidate number
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Candidate signature	I declare this is my own work.

A-level PHYSICAL EDUCATION

Paper 2 Factors affecting optimal performance in physical activity and sport

Time allowed: 2 hours

Materials

For this paper you may use:

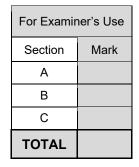
• a calculator.

Instructions

- Use black ink or black ball-point pen. Pencil should only be used for drawing.
- Fill in the boxes at the top of this page.
- Answer **all** questions. You must answer the questions in the spaces provided. Do **not** write on blank pages.
- If you need extra space for your answer(s), use the lined pages at the end of this book. Write the question number against your answer(s).
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 105.
- Questions should be answered in continuous prose. You will be assessed on your ability to:
 - use good English
 - organise information clearly
 - use specialist vocabulary where appropriate.





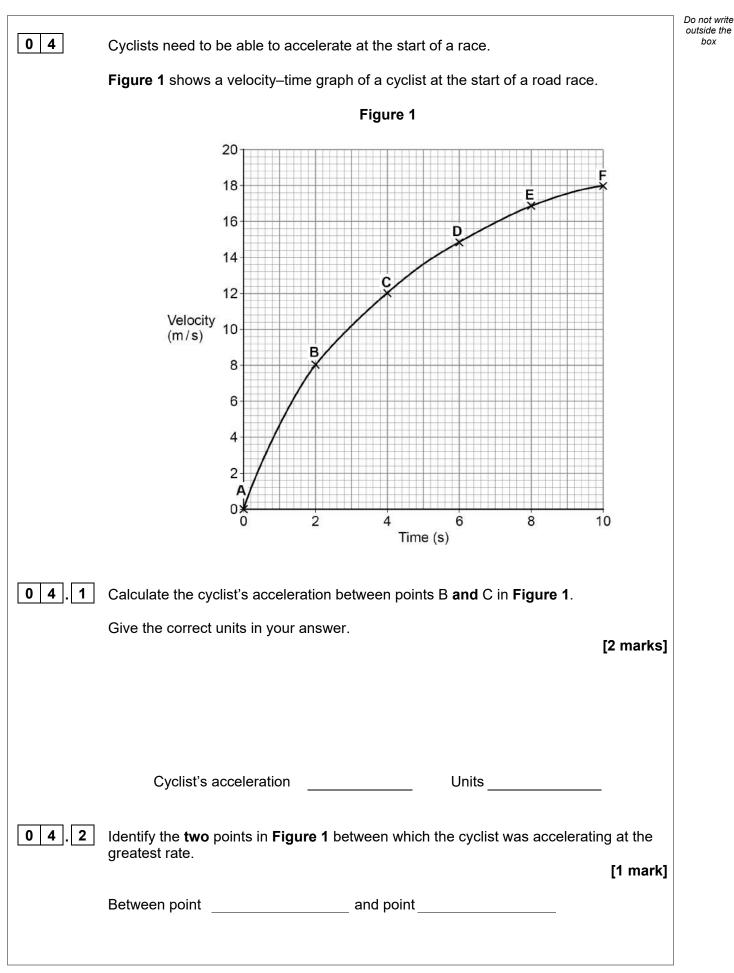


	Exercise physiology and Answer all questions ir	
	swer per question is allowed.	n this section.
For each que		
	estion completely fill in the circle alongsid	
CORRECT METHO		
-	o change your answer you must cross ou	
If you wish to as shown.	• return to an answer previously crossed	out, ring the answer you now wish to select
	<u> </u>	/
0 1	Which one of the following is classed as	a chronic iniurv?
		[1 mark]
1	A Achilles tendonitis	\bigcirc
I	B Ankle sprain	0
(C Hamstring strain	0
I	D Shoulder dislocation	0
0 2	Which one of the following will increase	the drag experienced by a cyclist? [1 mark]
	A Following another cyclist closely	
I	B Travelling at a higher velocity	0
		0



03	Sodium bicarbonate can be taken as a dietary supplement by a 400-metre	runner.
03.1	Describe how sodium bicarbonate works to delay fatigue.	[2 marks]
03.2	State one negative effect of taking sodium bicarbonate.	[1 mark]
	Turn over for the next question	







0 5	State one exercise-related function of carbohydrates. [1 mark]	Do not write outside the box
06	Katarina Johnson-Thompson is a heptathlete competing in multiple events over two days. Analyse why a lack of sleep between the two days of competition may impair her recovery and performance. [3 marks]	
	Turn over for the next question	



6 0 7 A runner has followed a continuous training programme three times per week for the last six weeks to prepare for a 5 km race. The race is scheduled to take place in four weeks' time. Analyse how applying the FITT principles to the runner's training could improve their performance during the race. [8 marks] You may use this space to plan your answer.

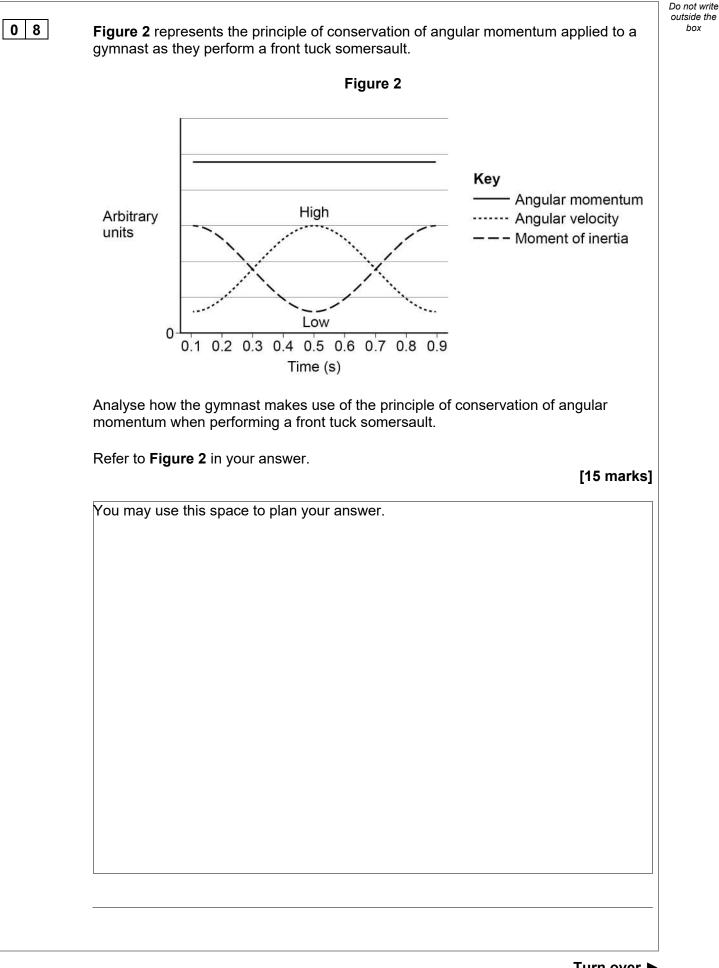


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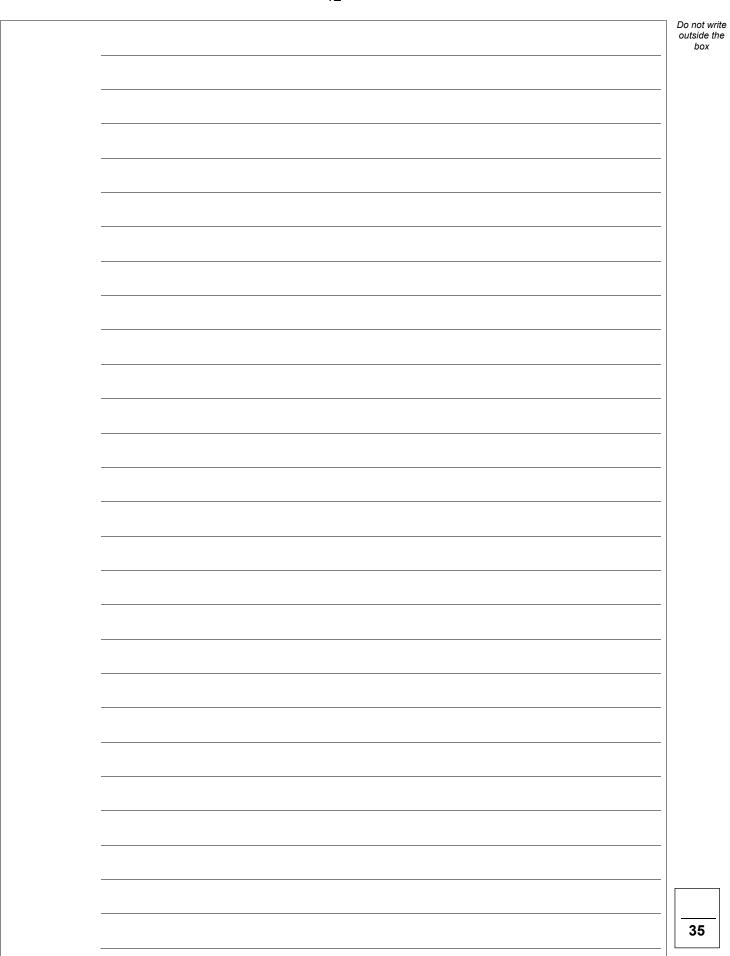














	Costian D		Do not outside
	Section B		b
	Sport psychology		
	Answer all questions in this section.		
09	Which one of the following is the second stage of group formation accorn Tuckman's model?	ording to	
		[1 mark]	
	A Forming		
	B Norming		
	C Performing		
	D Storming		
1 0	A golfer sets herself the goal of keeping her head still throughout her sw	<i>i</i> ng.	
	Identify which type of goal this is.	[1 mark]	
	A Outcome		
	B Performance		
	C Process		
	Turn over for the next question		

1 1	Define 'aggression' and 'assertive behaviour'. Give a sporting example of each. [4 marks]
	Aggression
	Assertive behaviour
1 2	State three strategies a coach can use to prevent a performer behaving aggressively in a competitive situation.
	[3 marks]
	1
	2
	3



1 3 Figure 3 shows a four-person rowing crew.

Do not write outside the box

Figure 3



The rowers carry out their roles individually, but at the same time, relying on co-ordination to be successful.

Evaluate the impact of task **and** social cohesion on the performance of a rowing crew. [3 marks]



1 4

The diver in **Figure 4** may use cognitive techniques such as mental rehearsal, visualisation and imagery to manage stress immediately before performance.

Figure 4



Analyse how the diver could use **other** cognitive stress management techniques to improve their performance in a competition. Refer to catastrophe theory in your answer.

[8 marks]

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box

You may use this space to plan your answer.

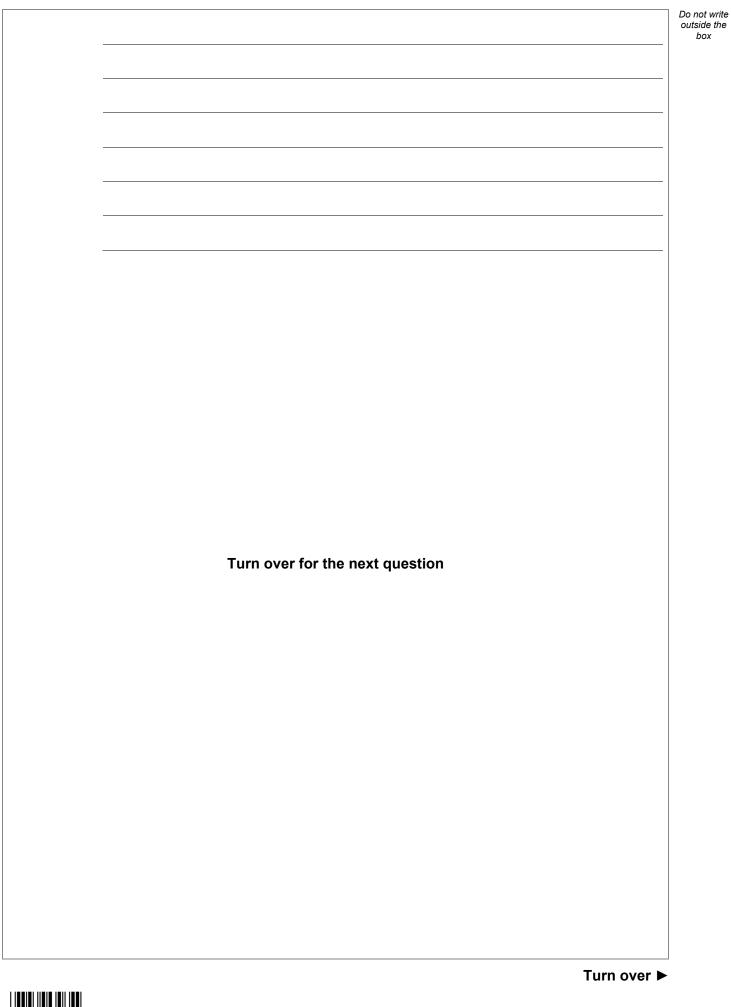


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1 5

A coach can use observations, questionnaires or physiological measures to obtain data on anxiety levels.

Evaluate the use of each measure to provide valid and reliable data to assess anxiety in sport.

[15 marks]

You may use this space to plan your answer.

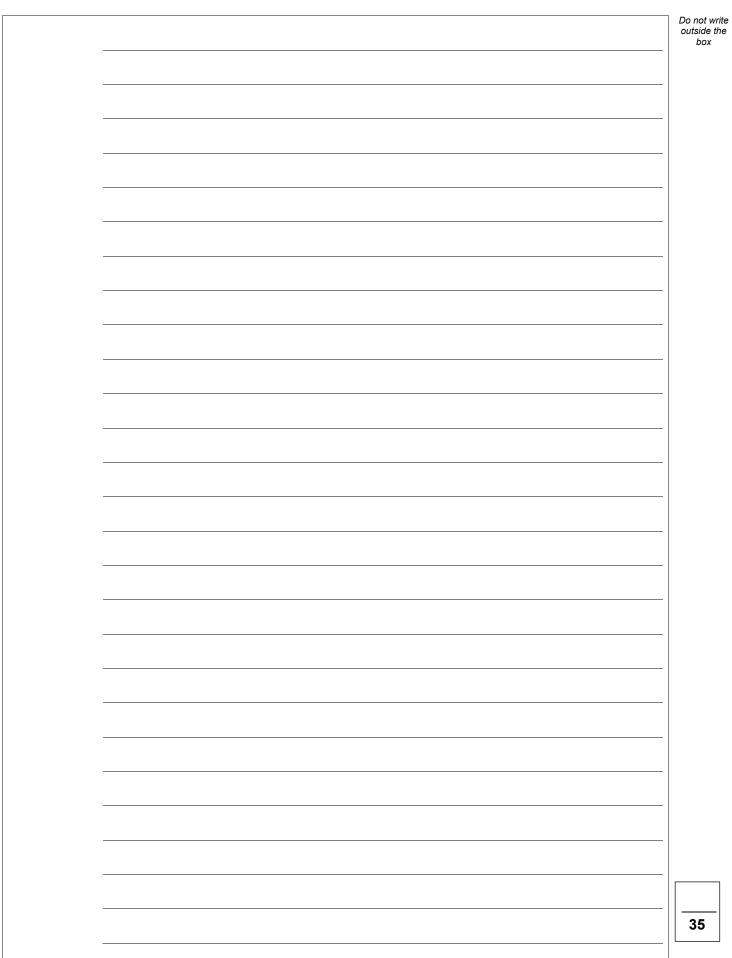














	Sectio	on C
	Sport and society and	
	Answer all questio	ns in this section.
1 6	Which one of the following organisat	ions only provides support to talented athletes? [1 mark]
	A National Governing Bodies	\bigcirc
	B Sport England	0
	C UK Sport	\bigcirc
1 7	Two adults play badminton for the pu	urpose of physical recreation.
	In which one of the following levels on activity occur?	of the sporting development continuum does this
	,	[1 mark]
	A Foundation	0
	B Participation	0
	C Performance	0
1 8	Evaluate the effectiveness of three of	different measures put in place to improve
1	spectator safety at football matches.	[3 marks]
	1	
	2	
	3	
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[8 marks]

26 In 2012, Lance Armstrong was stripped of his seven Tour de France titles and given a lifetime ban for using banned substances including erythropoietin (EPO). Evaluate the choice made by other professional cyclists to inject EPO instead of relying on altitude training alone to improve performance. Refer to the physiological effects of EPO on the cyclist in your answer. You may use this space to plan your answer.

2 1

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improve the performance of British elite track cyclists.	ka1
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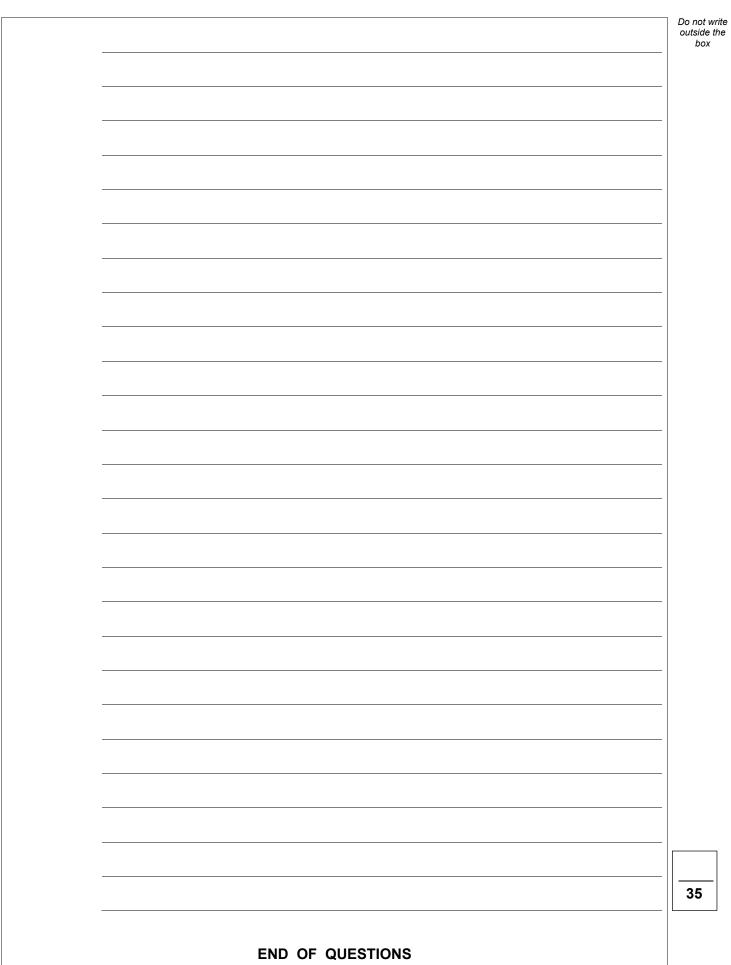


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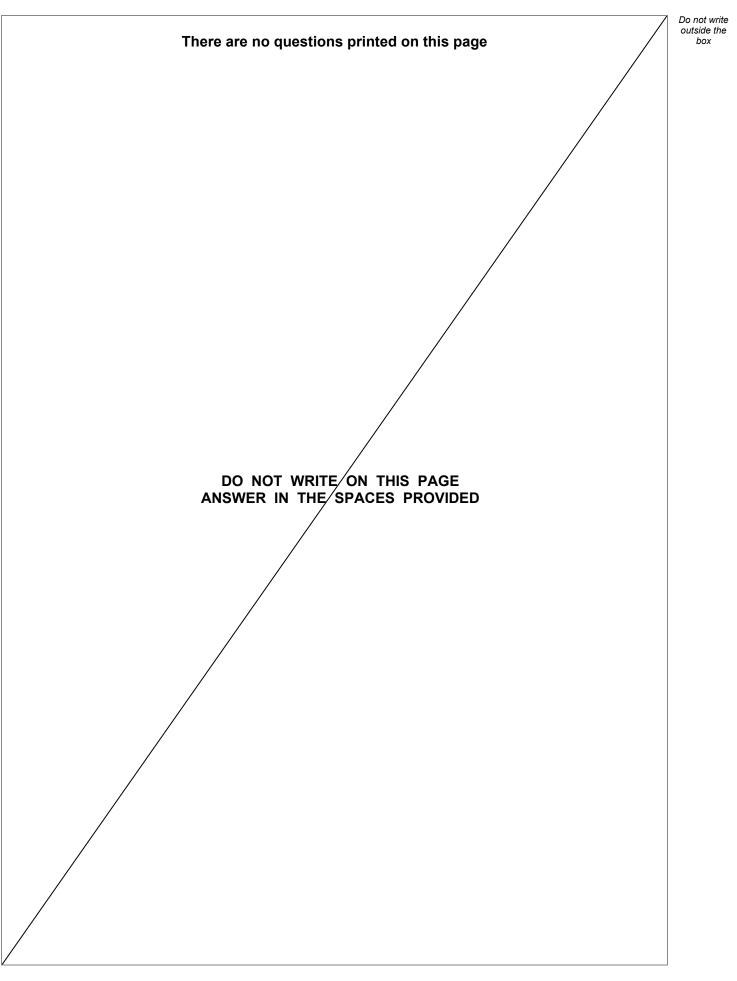














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