

A-level PHYSICAL EDUCATION

Paper 1 Factors affecting participation in physical activity and sport

Specimen 2018 Morning Time allowed: 2 hours

Materials

For this paper you may have:

a calculator.

Instructions

- Use black ink or black ball-point pen. Pencil should only be used for drawing.
- Fill in the boxes at the bottom of this page.
- Answer all questions. You must answer the questions in the spaces provided. Do not write on blank pages.
- 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.

Please write clearly, in block capitals, to allow character computer recognition.
Centre number Candidate number Candidate number
Surname
Forename(s)
Candidate signature

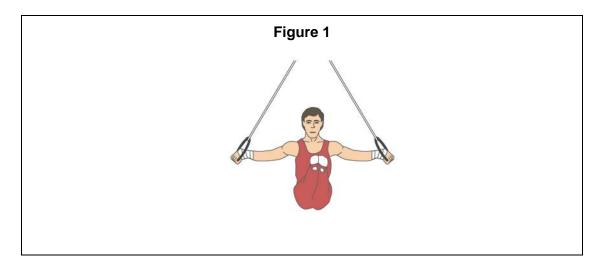
Section A

Applied anatomy and physiology

Answer **all** questions in this section.

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	For questi	ons	with four responses only one answer per question is allowed		`
	For each a	ans	wer completely fill in the circle alongside the appropriate answ	er.	
	CORRECT METH	IOD	■ WRONG METHODS ■ ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●		
	If you wan	t to	change your answer you must cross out your original answer	as shown.	\bowtie
	If you wish select as s		return to an answer previously crossed out, ring the answer ywn.	ou now wis	h to
0	1	lde	entify which one of the following statements defines expiratory re	eserve volu	me.
		Α	The amount of air breathed in or out per breath	\bigcirc	
		В	The amount of air left in the lungs after maximal expiration has occurred	0	
		С	The amount of air that can be forcibly expelled after a normal breath	0	
		D	The amount of air that can be forcibly inspired at the end of a breath	0	[1 mark]
					[· ····ci····cj
0	2		entify two functions of the fast component of Excess Post-Exerconsumption (EPOC).	ise Oxygen	
		Α	Break down lactic acid and normalise body temperature		
		В	Resaturate myoglobin with oxygen and normalise body temperature	0	
		С	Restore phosphocreatine (PC) and break down lactic acid	0	
		D	Restore phosphocreatine (PC) and resaturate myoglobin with oxygen	0	[1 mark]

0 3 . 1 Figure 1 shows a gymnast in a crucifix position on the rings.



Complete **Table 1** to identify the type of joint, the main agonist and the joint action at the gymnast's shoulder when in the crucifix position.

[3 marks]

Table 1

Type of joint	Main agonist	Joint action

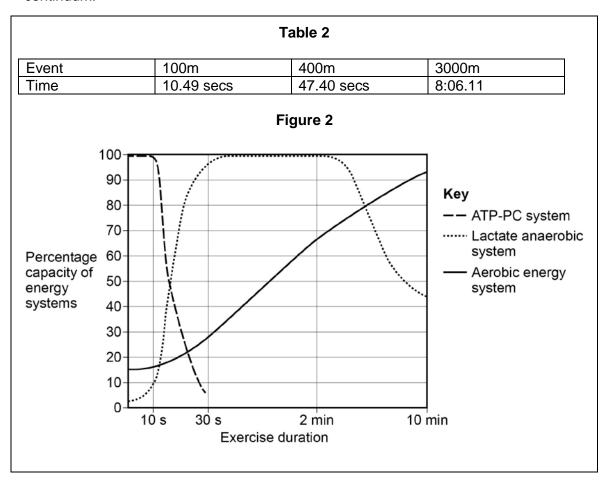
0 3 . 2	Explain how wave summation allows a gymnast to gain the required height in a floor routine.
	[3 marks]
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0 4 . 1	Fast twitch glycolytic muscle fibres (type IIx) are used to produce powerful contractions. Identify two characteristics of fast twitch glycolytic muscle fibres (type IIx). [2 marks]
0 4 . 2	Explain how the characteristics of fast twitch glycolytic muscle fibres (type IIx) you identified in question 04.1 are suited to producing ATP anaerobically during powerful contractions. [2 marks]
-	

0 5	In relation to energy transfer, evaluate the use of altitude training to increator for performance in a 1500m running event.	se fitness
		[8 marks]

0 6

Table 2 shows the times of an elite athlete for a 100m, 400m and 3000m race. **Figure 2** shows the relative contribution of the energy systems on the energy continuum.



Using **Figure 2**, analyse **and** evaluate the contribution of each energy system for each event identified in **Table 2**.

[15 marks]

`	You may use this space to plan your answer.

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	Extra space

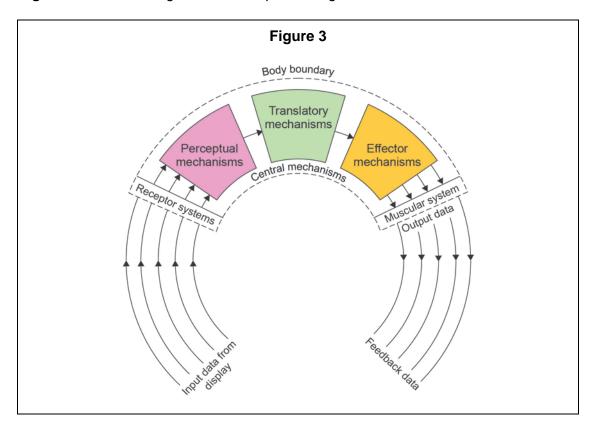
Section B

Skill acquisition

Answer **all** questions in this section.

0 7		hich one of the following classifications accurately describes the e start of a swimming race?	skills of a	dive at
	Α	Closed, externally-paced, complex and discrete	0	
	В	Closed, externally-paced, simple and discrete	0	
	С	Closed, self-paced, complex and discrete	0	
	D	Closed, self-paced, simple and discrete	0	[1 mark]
0 8	W	hich one of the following statements describes the term 'respons	se time'?	
	A	The time taken from the onset of the stimulus to the end of the movement	0	
	В	The time taken from the onset of the stimulus to the start of the movement	0	
	С	The time taken from the start of the movement to the end of the movement	0	
	D	The time taken from the start of the movement to the onset of the stimulus	0	[1 mark]

0 9 Figure 3 shows Whiting's information processing model.



	State the function of each of the central mechanisms during a game situation. [3 marks]	\$]
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1 0	Selective attention allows the performer to detect relevant cues from the dis Suggest three strategies that can be used to improve selective attention.	splay. [3 marks]
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1 1	Effective decision making is an important factor in the execution of skills. Outline the terms chunking and chaining and explain how they can improve decision making process. Use examples to support your answer.	e the [4 marks]

1 2	A coach may use different approaches to improve the team's performance.	
	Explain the principles of insight learning and discuss its effectiveness when	
	developing skills.	[8 marks]

1 3	Explain different types of feedback and evaluate their effect processing.	ct on information [15 marks]
	You may use this space to plan your answer.	[To marks]

Extra space

Section C

Sport and society

Answer **all** questions in this section.

1 4	W	hich one of the following definitions best describes the term soc	cialisation?	
	Α	A collection of people living in a defined geographical area	\circ	
	В	Studying how the social groups people belong to influence their actions and beliefs		
	С	The learning of cultural values in society	0	
	D	The learning of society's social norms and values	\bigcirc	
				[1 mark]
1 5	W	hich one of the following terms best describes a professional pe	erformer?	
	A	One who believes 'the end justifies the means'	\bigcirc	
	В	One who participates in sport 'for the love of it'	\bigcirc	
	С	One who receives direct payment for their participation in sporting activities	0	
	D	One who receives no payment for competing in sport	0	[1 mark]

1 6	Explain two characteristics of nineteenth century lawn tennis.	[4 marks]
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1 7	Using an example from sport, describe the term 'social change'.	[3 marks]
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1 8	'Kick it out' was established as a campaign with the brand name 'Lets Kick Out of Football'.	Racism
	Explain the impact of this type of campaign on society.	[3 marks]
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1 9	The Church encouraged the post-industrial game of football.
	Explain how they achieved this and their reasons for encouraging the development of football.
	[8 marks]
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2 0	Raising participation in physical activity should deliver both individual land a positive impact on society.	nealth benefits
	Analyse and evaluate this statement.	[15 marks]
	You may use this space to plan your answer.	

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Extra space		
- I		

END OF QUESTIONS

There are no questions printed on this page

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