

AS PHYSICAL EDUCATION

Factors affecting participation in physical activity and sport

Specimen 2017

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 84.
- 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.

ease write clearly, in block capitals, to allow character computer recognition.	
entre number	
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Section A

Applied physiology

Answer **all** questions in this section.

		with four responses only one answer per question is allowed. ver completely fill in the circle alongside the appropriate answe	er.	
CORRECT METHO		● WRONG METHODS 🗴 ●		
If you want	to	change your answer you must cross out your original answer a	as shown. 🤇	\bowtie
If you wish select as s		return to an answer previously crossed out, ring the answer yo /n.	ou now wish	to
0 1	He	eart rate is controlled by the cardiac conduction system.		
	W	hich one of the following is the order of the cardiac conduction s	ystem?	
	A	Atrioventricular node, sinoatrial node, bundle of His, Purkinje fibres	0	
	В	Atrioventricular node, sinoatrial node, Purkinje fibres, bundle of His	0	
	С	Sinoatrial node, atrioventricular node, bundle of His, Purkinjie fibres	0	
	D	Sinoatrial node, atrioventricular node, Purkinje fibres, bundle of His	0	
				[1 mark]
02	Du	uring sprinting, flexion occurs at the hip.		
	lde	entify which plane and about which axis hip flexion occurs.		
	Α	Frontal plane and sagittal axis	\bigcirc	
	В	Sagittal plane and longitudinal axis	\bigcirc	
	С	Sagittal plane and transverse axis	\bigcirc	
	D	Transverse plane and longitudinal axis	\bigcirc	[1 mark]
				[i iiiai k]

A long-distance cyclist may use continuous training to increase the strength of their heart.

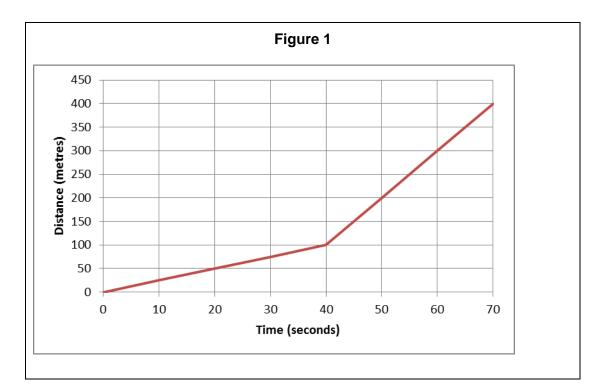
State how this increase in fitness can lead to an increase in the cyclist's performance and health.

[2 marks]

0 4

0 3

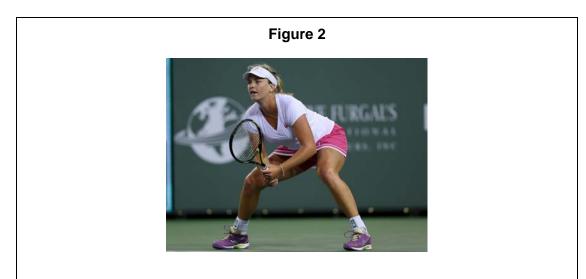
Figure 1 is a distance time graph for a cycle sprint.



Using **Figure 1**, calculate the speed of the cyclist between 40 and 70 seconds. [2 marks]

0 5 . 1	Tidal volume and minute ventilation of a cyclist will vary at rest and during a ra	ace.
	Define tidal volume and minute ventilation. [2	marks]
_		
_		
05.2	Explain how the cyclists' increase in minute ventilation allows them to maintai performance throughout the race. [3	n marks]
_		
_		
_		

0 6 Justify why a gymnast may include ballistic stretches in a warm up. [3 marks] 0 7 Muscle spindles are proprioceptors located between the muscle fibres. Outline the role of muscle spindles. [2 marks] Analyse, using Newton's First and Second Laws of motion, how a footballer will 0 8 move towards the ball from a stationary position. [4 marks]



Use **Figure 2** to explain how the musculo-skeletal and neuromuscular systems assist the player in maintaining stability.

[8 marks]

Figure 2 shows a tennis player in a stable position ready to return a serve.

09

Extra space

Turn over for Section B

Section B

Skill acquisition and sports psychology

Answer all questions in this section.

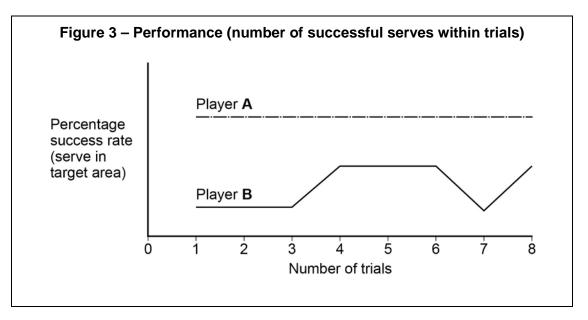
1 0 Which one of the following classifications accurately describes the skill of taking a football penalty kick? A Closed, externally-paced, complex and discrete \bigcirc B Closed, externally-paced, simple and discrete C Closed, self-paced, complex and discrete \bigcirc D Closed, self-paced, simple and discrete \bigcirc [1 mark] 1 1 Tuckman suggested the formation of a group occurs in a specific order. Which one of the following orders is correct? A Forming, storming, norming, performing Norming, performing, forming, storming В С Performing, forming, storming, norming,

D Storming, norming, performing, forming

\bigcirc]	
0]	
\circ]	
0]	

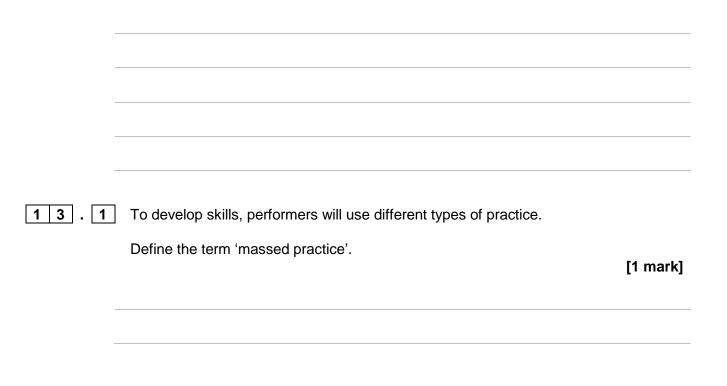
[1 mark]

Figure 3 shows the success rate of two badminton players, during a number of trials, performing a serve into a target area.



Using **Figure 3**, identify the stage of learning of player **A and** state **two** characteristics of a performer in this stage of learning.

[3 marks]



1 2

1 3 . 2	Explain three reasons why a coach would use massed practice to produce improvements in performance.	optimum
		[3 marks]
1 4	Describe what you understand by the term 'competitive state anxiety'.	[2 marks]
1 5	Performers who display a negative attitude will often disrupt the performar team.	nce of a
	When using persuasive communication, explain the factors that need to be	е
	considered to change the negative attitude of a performer.	[3 marks]

1 6	During competitive situations, performers may display aggressive behaviour.
	Suggest three strategies a coach could use to eliminate aggressive behaviour. [3 marks]
-	
-	
-	
1 7	The way in which performers within a team relate to each other is known as
	cohesion.
	Suggest why cohesive teams tend to be more successful. [3 marks]
-	
-	
-	
_	

Turn over for the next question

1 8	A coach may use punishment as part of operant conditioning to improve a individual's performance.	n
	Explain the principles of operant conditioning and discuss the impact that punishment has on motivation when developing skills.	[9 morks]
		[8 marks]
	Extra space	

Section C

Sport and society and technology in sport

Answer **all** questions in this section.

19	Which one of the following is a primary agent of socialisation?		
	A Immediate family	\bigcirc	
	B Mass media	\bigcirc	
	C Peer	\bigcirc	
	D Schools	\bigcirc	
			[1 mark]
2 0	Which one of the following was played in pre-industrial society?		
	A Association football	\bigcirc	
	B Lawn tennis	\bigcirc	
	C Rationalised track and field events	\bigcirc	
	D Real tennis	\bigcirc	
			[1 mark]

Turn over for the next question

2 1	Explain two characteristics of pre-industrial football.	[4 marks]
22	Explain how the church encouraged the post-industrial game of football.	[2 marks]

2 3	Explain how the modern form of association football can match the concep	ot of sport. [6 marks]
2 4	Define the term 'discrimination'.	[2 marks]

Turn over for the next question

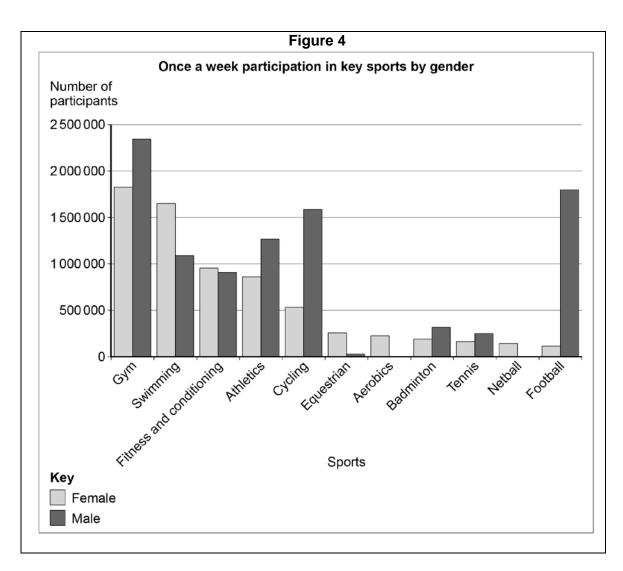


Explain **two** reasons why raising participation in physical activity and sport will lead to increased health benefits for the individual.

[4 marks]

26

One objective of Sport England's 2012/17 strategy is raise the percentage of females playing sport once a week. **Figure 4** shows the once a week participation in key sports by gender.



Using the data in **Figure 4**, evaluate the sociological and psychological factors affecting female participation in football, athletics and tennis.

[8 marks]

END OF QUESTIONS

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