

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.

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 physiology

Answer all questions in this section.

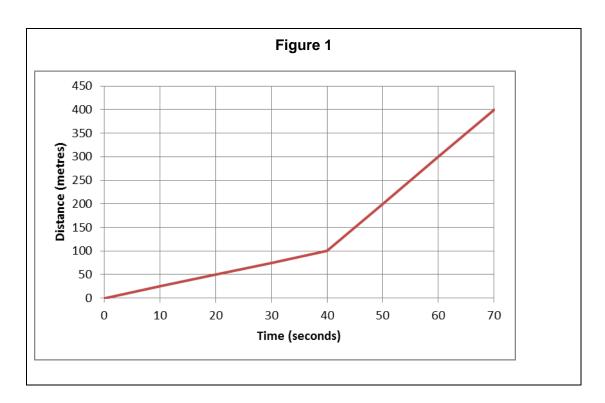
,					
	For question	ns v	with four responses only one answer per question is allowed.		
	For each an	ISW	er completely fill in the circle alongside the appropriate answe	er.	
	CORRECT METHOD	0	● WRONG METHODS Ø ● ◆		
	If you want	to d	change your answer you must cross out your original answer	as shown.	\bowtie
	If you wish t select as sh		return to an answer previously crossed out, ring the answer your.	u now wish	n to
(0 1	He	eart rate is controlled by the cardiac conduction system.		
		WI	nich one of the following is the order of the cardiac conduction s	ystem?	
		Α	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		
					[1 mark]
(0 2	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	0	
		С	Sagittal plane and transverse axis	\circ	
		D	Transverse plane and longitudinal axis	0	• • • • •
					[1 mark]

0 3 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 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.

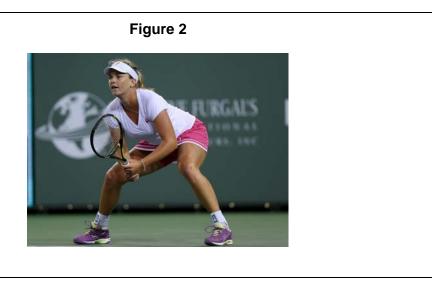
[2 marks]

0 5 . 1	Tidal volume and minute ventilation of a cyclist will vary at rest and during a Define tidal volume and minute ventilation.	race. 2 marks]
0 5 . 2	performance throughout the race.	ain 3 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]
0 8	Analyse, using Newton's First and Second Laws of motion, how a footbal move towards the ball from a stationary position.	ller will
	move towards the ball from a stationary position.	[4 marks]

0 9

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



Use ${f Figure~2}$ to explain how the musculo-skeletal and neuromuscular systems assist the player in maintaining stability.

[8 marks]

Turn over for Section B

Section B

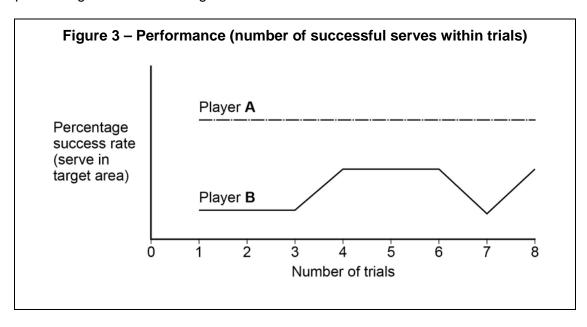
Skill acquisition and sports psychology

Answer **all** questions in this section.

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

1 2

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.	iracieristics
of a portormer in the stage of loanning.	[3 marks]
To develop skills, performers will use different types of practice.	

1 3 . 1

Define the term 'massed practice'.

[1 mark]

1 3 . 2	Explain three reasons why a coach would use massed practice to produce optimum improvements in performance.		
		[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 performand team.	ce of a	
	When using persuasive communication, explain the factors that need to be		
	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 ar individual's performance.	1
	Explain the principles of operant conditioning and discuss the impact that punishment has on motivation when developing skills.	
	pullishinent has on motivation when developing skills.	[8 marks]
	_	
	Extra space	

Section C

Sport and society and technology in sport

Answer **all** questions in this section.

1 9	Which one of the following is a primary agent of socialisation?		
	A Immediate family	0	
	B Mass media	0	
	C Peer	0	
	D Schools	0	
			[1 mark]
2 0	Which one of the following was played in pre-industrial society?		
	A Association football	0	
	B Lawn tennis	\bigcirc	
	C Rationalised track and field events	0	
	D Real tennis	\bigcirc	
			[1 mark]

Turn over for the next question

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

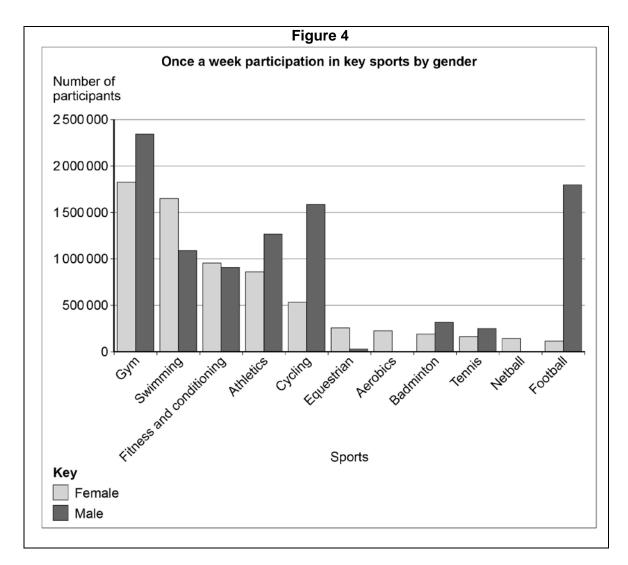
2 3	Explain how the modern form of association football can match the concep	ot of sport. [6 marks]
2 4	Define the term 'discrimination'.	[2 marks]

Turn over for the next question

2 5	Explain two reasons why raising participation in physical activity and sport wil to increased health benefits for the individual.			
		[4 mark		

2 6

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.

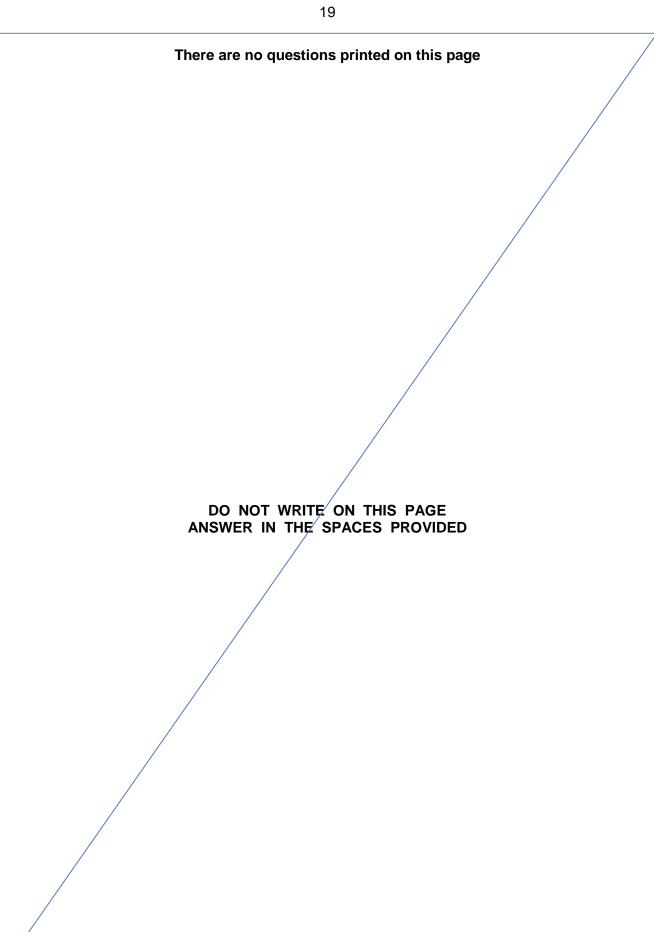


Using the data in **Figure 4**, evaluate the sociological and psychological factors affecting female participation in football, athletics and tennis.

[8 marks]			

Extra space		
Extra opaco		

END OF QUESTIONS



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Figure 2: © Stephen Dunn / Staff / Getty Images

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