

# Tuesday 23 May 2017 – Morning

### AS GCE PHYSICAL EDUCATION

**G451/01** An Introduction to Physical Education

Candidates answer on the Question Paper.

**OCR** supplied materials:

None

Other materials required:

None

**Duration:** 2 hours



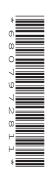
Candidate forename				Candidate surname					
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#### **INSTRUCTIONS TO CANDIDATES**

- Write your name, centre number and candidate number in the boxes above. Please write clearly and in capital letters.
- Use black ink. HB pencil may be used for graphs and diagrams only.
- Answer all parts of the question in each of Sections A, B and C.
- Read each question carefully. Make sure you know what you have to do before starting your answer.
- Write your answer to each question in the space provided. If additional space is required, you should use the lined page(s) at the end of this booklet. The question number(s) must be clearly shown.
- Do not write in the barcodes.

#### **INFORMATION FOR CANDIDATES**

- The number of marks is given in brackets [ ] at the end of each question or part question.
- The total number of marks for this paper is 90.
- The quality of your written communication will be assessed in questions that are indicated accordingly (\*).
- This document consists of 16 pages. Any blank pages are indicated.



### **SECTION A – Anatomy and Physiology**

Answer all parts of the question.

(a) Fig. 1 shows a golfer during the backswing phase of a golf shot.



Fig. 1

(i) Complete the table below for the left shoulder joint of the golfer.

[3]

Joint	Joint type	Movement	Agonist	Antagonist
Shoulder		Adduction		

[2]
Muscle 2:
Muscle 1:
Name <b>two</b> muscles of the rotator cuff.
The second control of
The rotator cuff is important for maintaining the stability of the shoulder joint.

(ii)

(b)	(i)	Identify and give <b>two</b> structural characteristics of the muscle fibre type predominantly involved in a golf shot.
		Muscle Fibre Type:
		Characteristic 1:
		Characteristic 2:
	(ii)	How might a warm up affect the skeletal muscle tissue of the golfer?
		[2]
(c)	Exp	lain the process of the distribution of blood in muscles and organs during exercise.
		[5]

(d)	Describe the process of gaseous exchange of oxygen at the alveoli during rest.
	How does this change during exercise?
	re <sup>-</sup>

	5
(e)*	Explain the benefits of a person taking up regular jogging on the health of the cardiovascular and muscular-skeletal systems of the body. [10]


# **SECTION B – Acquiring Movement Skills**

Answer all parts of the question.

2	(a)	Learning movement skills involves the use of memory.
		Describe the Multi-store memory process when learning movement skills.
		[4]

**(b)** Fig. 2 below shows the relationship between performance and arousal when performing movement skills. This is known as the Catastrophe Theory.

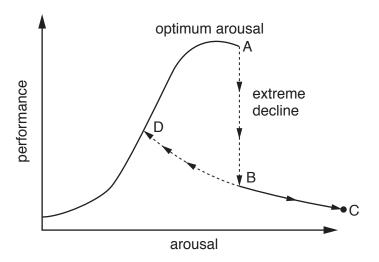


Fig. 2

Explain the sudden decrease in performance of movement skills shown in Fig. 2.
[5]

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(e)*	The organisation of practices to ensure effective skill learning can involve using part and whole practice methods.							
	Using practical examples, describe each of these methods and evaluate their effectiveness in learning different types of movement skills. [10]							

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# SECTION C – Socio-Cultural Studies relating to participation in physical activity

Answer all parts of the question.

3	(a)	(i)	Define the terms:	
			Physical activity:	
			Exercise:	
			[2	
		(ii)	Other than physical activity and exercise, identify <b>one</b> other component that contribute to a healthy balanced lifestyle.	S
			[	1]
	(b)	(i)	Sport is a competitive and organised activity.	
			Describe <b>two</b> other characteristics of sport and <b>two</b> benefits from taking part.	
			Characteristic 1:	
			Characteristic 2:	
			Benefit 1:	••
			Benefit 2:	
			[4	 1]
		(ii)	Describe <b>three</b> sources of funding available to a sports performer.	

(c)	The UK has changed from an amateur approach to a more professional approach with regards to sport in recent years.				
		lain the role of government and sporting organisations in promoting and supporting this nge.			
	Gov	vernment organisations:			
	Spc	orting organisations:			
		[4]			
(d)	(i)	Other than winning, explain <b>three</b> other reasons why an athlete might use drugs in sport.			
	(ii)	Give <b>three</b> possible solutions to reduce the use of drugs in sport.			
		[3]			

	Explain how Governments use sport as a political tool.	
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### **END OF QUESTION PAPER**

### **ADDITIONAL ANSWER SPACE**

If additiona must be cle	I space is required, you should use the following lined page(s). early shown in the margin(s).	The question number(s)
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