

# Friday 5 June 2015 – Afternoon

### 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



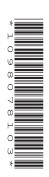
forename	surname	
Centre number	Candidate number	

#### **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. Additional paper may be used if necessary but you must clearly show your candidate number, centre number and question number(s).
- Do not write in the bar codes.

### **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.



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

Answer all parts of the question.

1 (a) Fig. 1 shows an athlete performing a warm up exercise.

Movement



Fig. 1

**Agonist** 

Gluteus

Medius

(i) Complete the table below for the athlete's hip joint in the direction of the arrow.

**Antagonist** 

Type of muscular contraction

[3]

(ii)	Give two ways in which a warm up would affect skeletal muscle during exercise.
	[2]
(b) (i)	Define blood pressure.
	[1]

**Joint** 

Hip

	(ii)	Describe the changes that occur to both systolic and diastolic blood pressure du exercise.	uring
			. [4]
(c)	Expl	plain hormonal regulation of the heart during exercise.	
			•••••
	•••••		

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(d)	For a performer at res cells.		
			[e]

(e)\* Explain the changes in the distribution of cardiac output from rest to maximal exercise.

Make reference to:

•	Vascular shunt mechanisms	
•	Venous return	
•	Control by the vasomotor centre	[10]
	•	

	1

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# **SECTION B – Acquiring Movement Skills**

Answer all parts of the question.

(a)	Abilities are often regarded as being innate and enduring.  Describe other characteristics of gross motor and psychomotor abilities and give an example of each.
	[4]
(b)	Describe Whiting's model of information processing.
(b)	Describe Whiting's model of information processing.
(b)	Describe Whiting's model of information processing.
(b)	

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	Describe open loop and closed loop control when performing movement skills.
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	escribe the different types of transfer and critically evaluate their impact on the learning of pyement 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)	Identify reasons why many people lead increasingly sedentary lifestyles in contemporary UK society.
			[2]
		(ii)	State the recommended amounts of physical activity needed to be healthy.
			[2]
	(b)	(i)	Identify <b>two</b> benefits of outdoor recreation. Give a practical example of how each can be achieved.
			[4]

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	State <b>two</b> differences between outdoor education and outdoor recreation.				
(c)	Explain why ethnic sports such as the Highland Games are still popular today.	2]			
		•••			
	[	5]			
(d)	The relationship between sport and sponsorship is one part of the 'golden triangle'. Discuss possible advantages and disadvantages of the relationship between sport as sponsorship.	nd			
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_	explain how the Olympic Games can bring about nation building.	[10
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