

## **GCE A LEVEL**

1550U30-1



## THURSDAY, 26 MAY 2022 - AFTERNOON

## **PHYSICAL EDUCATION – A2 unit 3**

**Evaluating Physical Education** 

2 hours

#### **ADDITIONAL MATERIALS**

A WJEC pink 16-page answer booklet. In addition to this paper you may require a calculator and a ruler.

#### **INSTRUCTIONS TO CANDIDATES**

Use black ink or black ball-point pen. Answer **all** questions.

#### **INFORMATION FOR CANDIDATES**

The number of marks is given in brackets at the end of each question or part-question. You are reminded of the necessity for good English and orderly presentation in your answers. Diagrams, charts and graphs can be used to support answers when they are appropriate.

## Answer all questions.

1.	(a)	Identify the potential risks of the use of performance enhancing drugs on health.	[3]
	(b)	Outline how chemoreceptors influence heart rate during exercise.	[3]
	(c)	Describe how the heart works as a dual-action pump when circulating blood during exercise.	[6]
2.	(a)	Explain, using examples, the causes of Learned Helplessness.	[3]
	(b)	Explain why a coach would use attribution retraining to improve sporting performance	e. [4]
	(c)	Improving reaction time in sport can have positive effects on performance.	
		(i) Outline, using relevant examples, how anticipation can influence reaction time.	[3]
		(ii) Explain how the Psychological Refractory Period (PRP) can affect reaction time	e. [4]
	(d)	Describe the strategies a coach could use to ensure information is stored in a performer's long-term memory.	[6]

**3.** Jamaican sprinters have dominated World and Olympic athletics in recent years. Preparing for competition at the very highest level requires detailed understanding and application of physiological and biomechanical principles.



Figure 1 – Sprint start

- (a) Explain how an understanding of Newton's third law of motion could aid the sprinter at the start of a race (**Figure 1**). [2]
- (b) (i) Identify **three** long term physiological adaptations of anaerobic training on the muscular system of a sprinter. [3]
  - (ii) Explain the effects of these adaptations on a sprinter's performance. [3]
- (c) Explain, using examples, how a performer's understanding of stability could develop performance. [9]

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4.

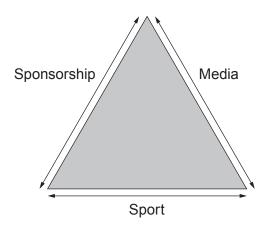


Figure 2 - The Golden Triangle

- (a) Explain, using examples, the relationship of the elements within the Golden Triangle (**Figure 2**). [3]
- (b) Describe the phases of a 'talent identification process' to develop elite performance. [4]
- (c) Analyse how government bodies such as Sport Wales have promoted sport for all and lifelong participation. [4]
- (d) "Fair play has been eroded in modern day sport."

  Discuss this statement using appropriate examples. [10]

5.



Figure 3 – Psychological Factors

Discuss how psychological factors could impact your performance (Figure 3).

[20]

### **END OF PAPER**

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