

Friday 6 June 2014 – Morning

AS GCE PHYSICAL EDUCATION

G451/01 An Introduction to Physical Education



Candidates answer on the Question Paper.

OCR supplied materials:

None

Duration: 2 hours

Other materials required:

None



Candidate forename					Candidate surname				
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Centre number						Candidate number			
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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. 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.

SECTION A – Anatomy and Physiology

Answer **all** parts of the question

- 1 (a)** Fig. 1 shows a gymnast in a bridge position.

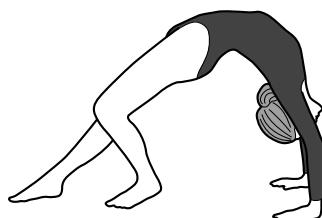


Fig. 1

- (i)** Complete the table below for the gymnast's spine.

Joint	Joint Type	Movement	Agonist	Antagonist
Spine				

[4]

- (ii)** Name **one** muscle involved in the core stability of the spine.

..... [1]

- (b) (i)** Explain why the position held in a bridge is more stable than in a handstand.

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..... [3]

- (ii)** Describe angular motion and give an example from sport.

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..... [2]

- (c) (i) Give an average value for cardiac output for a performer at rest and during maximal exercise.

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- (ii) Describe how the conduction system of the heart controls the systolic phase of the cardiac cycle.

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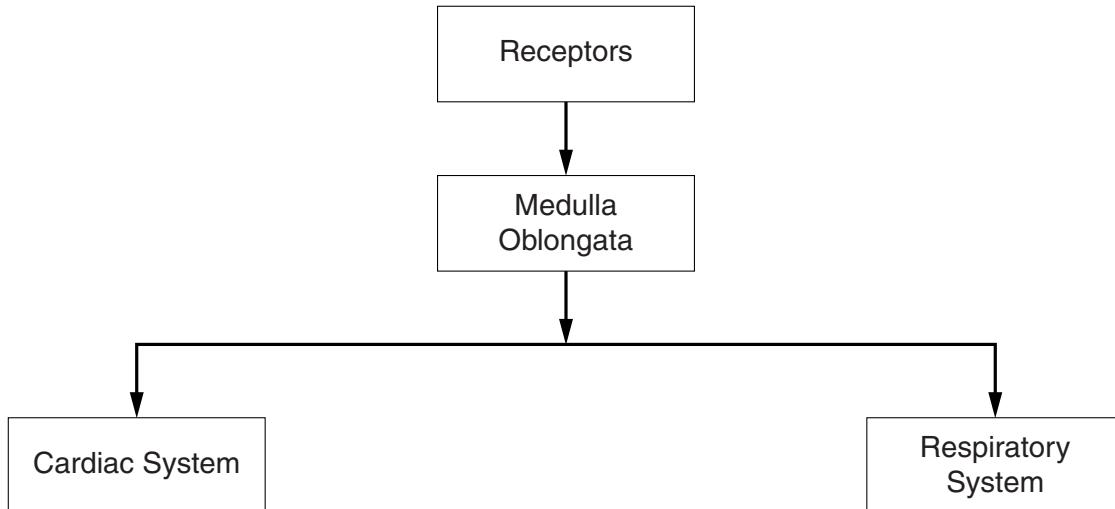
[4]

- (d) Describe the mechanics of breathing for inspiration at rest.

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(e)*

**Fig. 2**

Describe neural factors which regulate the cardiac and respiratory systems shown in Fig. 2 during exercise.

Using Fig. 2, explain how these systems affect an endurance performer.

[10]

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SECTION B – Acquiring Movement Skills

Answer **all** parts of the question

- 2 (a) Giving a practical example for each, explain why a skill can be classified as either self paced or externally paced.

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[4]

- (b) Quick reactions can be affected by factors such as the psychological refractory period.

Explain the psychological refractory period.

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- (c) Using practical examples, describe visual, verbal and mechanical guidance. Outline **one** benefit of each type of guidance.

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- (d) Describe the cognitive theory of learning. Give **one** example of how this theory can be applied to the learning of healthy lifestyles.

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[6]

- (e)* Arousal is often linked to performance. Critically evaluate Drive theory, Inverted U theory and Catastrophe theory. [10]

Section C – Socio-Cultural studies relating to participation in physical activity

Answer **all** parts of the question

- 3 (a) (i) Define Physical Education.

..... [1]

- (ii) Physical Education has many benefits such as improved health and fitness.

Identify **three** other possible benefits of Physical Education and explain how each can be achieved.

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- (b) The sports development pyramid has four layers as shown in Fig. 3.

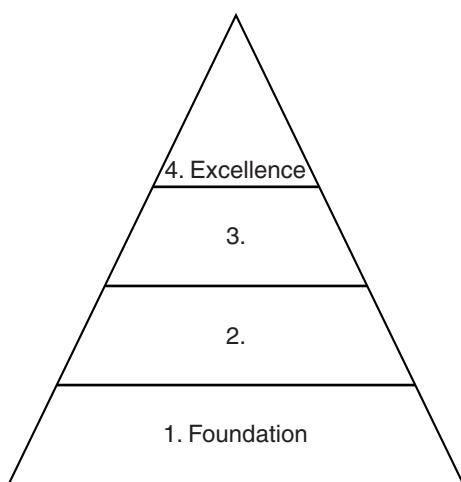


Fig. 3

- (i) Name and describe layers 2 and 3 in Fig. 3.

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[2]

- (ii) Name and describe the role of **one** national organisation in the UK that supports elite performers at the top of the sports development pyramid.

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[3]

(c) The first modern Olympic Games were in Athens in 1896.

(i) Describe the background to the modern Olympic Games.

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(ii) Describe the early aims and philosophy of the modern Olympic movement.

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[3]

(d) (i) Explain deviance in sport.

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[2]

(ii) Compare the possible effects of sportsmanship and gamesmanship on sporting situations.

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[3]

(e)* Explain the nature of sport in the USA.

[10]

END OF QUESTION PAPER

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