



The Langley Academy

PE Faculty

Transition work

Summer 2017

A Level PE

Name:.....

Section	Mark	%	Grade
Anatomy & Physiology			
Skill Acquisition			
Sport & Society			

Anatomy & Physiology

Q1.Heart rate is controlled by the cardiac conduction system.

Which **one** of the following is the order of the cardiac conduction system?

- A** Atrioventricular node, sinoatrial node, bundle of His, Purkinje fibres
- B** Atrioventricular node, sinoatrial node, Purkinje fibres, bundle of His
- C** Sinoatrial node, atrioventricular node, bundle of His, Purkinje fibres
- D** Sinoatrial node, atrioventricular node, Purkinje fibres, bundle of His

(Total 1 mark)

Q2.Heart rate values will vary before, during and after a badminton match.

- (i) Explain the term anticipatory rise.

(1)

- (ii) Neural control of heart rate involves the autonomic nervous system.

Identify **and** explain the role of different receptors involved in increasing heart rate.

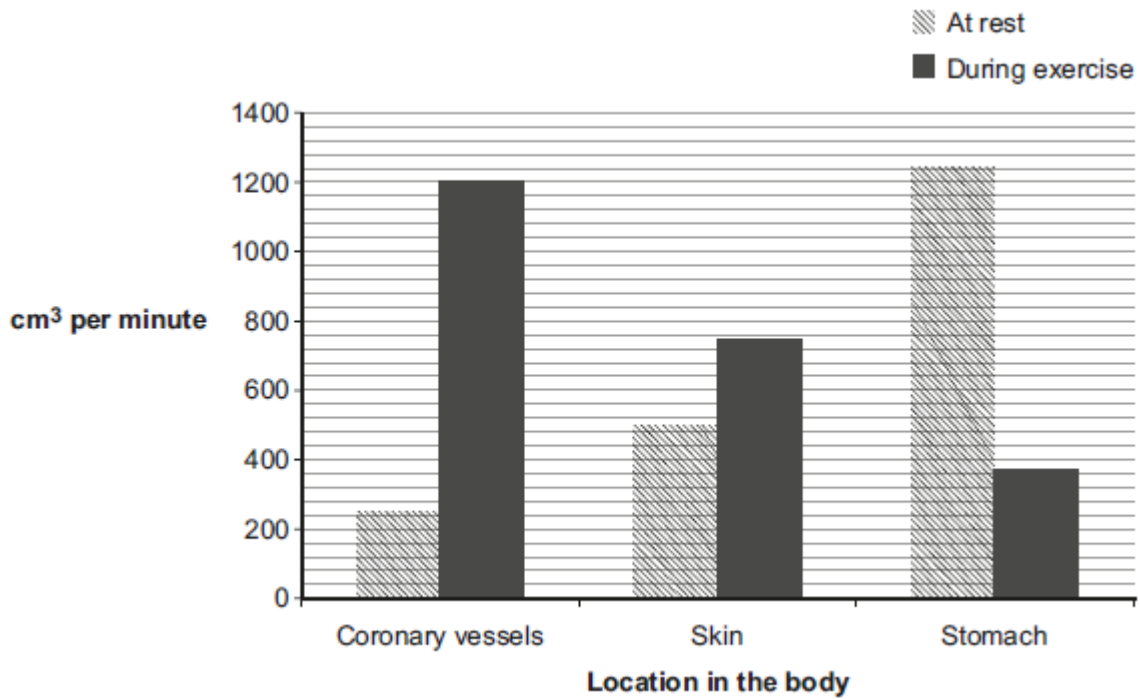
(3)
(Total 4 marks)

Q3.The transport of oxygen during a continuous training session is vital for athletes to make sure that oxygen supply meets oxygen demand.

What is the difference between haemoglobin **and** myoglobin when transporting oxygen?

(Total 2 marks)

Q4.When a performer exercises for a continuous period, blood is redistributed around the body as shown in the graph below.



(i) Identify and explain the change in blood flow during exercise at **two** different locations shown in the graph.

(4)

(ii) Explain how redistribution of blood is achieved during exercise.

(3)
(Total 7 marks)

Q5. Describe how running affects the venous return mechanism.

(Total 3 marks)

Skill Acquisition

Q6. Which **one** of the following classifications accurately describes the skill of taking a football penalty kick?

- 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

(Total 1 mark)

Q7. Which **one** of the following classifications accurately describes the skills of a dive at the start of a swimming race?

- 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

(Total 1 mark)

Q8. The photograph below shows swimmers waiting for the official to start the race.



Photos.com / Thinkstock

- (i) The swimming start can be classified on continua as 'open – closed', 'self paced – externally paced' and 'discrete – serial – continuous'.

Classify the swimming start using these **three** continua.

(1)

- (ii) Justify how **two** of these continua may change during the race.

(1)

(Total 2 marks)

Q9.Skills can be classified on continua as:

- open – closed
- self-paced – externally paced
- discrete – serial – continuous.

- (i) Classify the skill of taking a penalty in football using these **three** continua.

(1)

- (ii) Explain how shooting at goal during general play may alter these classifications.

(2)

(Total 3 marks)

Sport & Society

Q12. Explain how the church encouraged the post-industrial game of football.

(Total 2 marks)

Q13. Explain **two** characteristics of pre-industrial football.

(Total 4 marks)

Q14. During the 19th century, many sports' governing bodies were established.

Explain the factors that led to the emergence of national governing bodies, such as the Football Association, during the 19th century.

(Total 4 marks)

Q15. To maximise the chance of success, funding is required to support the development of elite level performers.

Explain how the middle classes supported the developments in sport during the 19th century.

(Total 3 marks)

Q16. Explain **two** characteristics of nineteenth century lawn tennis.

(Total 4 marks)