



Cambridge International AS & A Level

PHYSICAL EDUCATION

9396/32

Paper 3

October/November 2020

2 hours 30 minutes



You must answer on the enclosed answer booklet.

You will need: Answer booklet (enclosed)

INSTRUCTIONS

- Answer **all** questions.
- Follow the instructions on the front cover of the answer booklet. If you need additional answer paper, ask the invigilator for a continuation booklet.
- You may use a calculator.
- You should show all your working and use appropriate units.

INFORMATION

- The total mark for this paper is 90.
- The number of marks for each question or part question is shown in brackets [].

This document has **4** pages. Blank pages are indicated.

Answer **all** questions.

Section A: Exercise and sport physiology

- 1 (a) Explain the principle of coupled reactions with reference to the breakdown of ATP. [4]
- (b) Compare the ATP/PC system and the aerobic system in terms of:
- type of reaction
 - chemical or food fuel used
 - energy yield
 - by-products produced.
- [4]
- (c) Explain what is meant by the term *energy continuum* and suggest why knowledge of the energy continuum of an activity may help a coach to plan a training programme. [3]
- (d) During the recovery process after strenuous exercise, the body experiences excess post-exercise oxygen consumption (EPOC).
- (i) Explain what is meant by the term *excess post-exercise oxygen consumption (EPOC)*. [2]
- (ii) Describe what this excess oxygen is used for in the recovery process. [3]
- (e) Describe how target heart rates may be used when planning training to develop aerobic capacity. [4]
- (f) Describe a method of evaluating maximum strength. [4]
- (g) Anabolic steroids are illegal ergogenic aids that can enhance performance in sport.
- Describe the positive and negative effects that anabolic steroids may have on a performer. [6]

[Total: 30]

Section B: Psychology of sport performance

- 2 (a) Eysenck suggested that personality was based on inherited traits.

Describe each of the following inherited traits of personality:

- extroversion
- neuroticism.

[2]

- (b) It is generally accepted that a sports performer needs achievement motivation to be successful.

(i) Explain what is meant by achievement motivation.

[3]

(ii) Explain how situational factors can affect the achievement motivation of a sports performer.

[4]

- (c) Chelladurai's model of leadership identifies three factors that have an impact on the type of leadership that would produce the best results in a sporting situation.

Describe, using a sporting example for each, the following factors:

- situational characteristics
- leader's characteristics
- members' characteristics.

[3]

- (d) Outstanding sporting performances may occur at different levels of arousal, and a performer will often talk about being 'in the zone'.

(i) Apart from outstanding performance levels, describe **five** characteristics of a performer who is in the zone of optimum functioning.

[5]

(ii) Explain the relationship between arousal and task complexity.

[3]

- (e) Outline the positive effects an audience may have on a performer in an athletics event.

[5]

- (f) Explain Berkowitz's aggressive-cue hypothesis.

[5]

[Total: 30]

Section C: Olympic Games: a global perspective

- 3 (a) Describe ways that the Olympic Games act as a social force. [4]
- (b) The philosophy of many participants at the ancient Olympic Games was very different from the ideals of the modern Games. Many athletes adopted a 'wreath or death' mentality.
- Explain what was meant by a 'wreath or death' mentality. [3]
- (c) Suggest potential problems associated with the bidding process to host the Olympic Games. [4]
- (d) (i) Outline the possible financial costs for athletes of competing in the Olympic Games. [4]
- (ii) Outline the types of facilities, other than sports venues, that a country will have to provide in the areas where the Olympic Games will be staged. [3]
- (e) Explain how amateurism was used to prevent working-class competitors from participating in the Olympic Games. [3]
- (f) Outline the changing role of women in the Olympic Games from 1896 to the present day. [5]
- (g) Some Paralympic athletes are achieving qualifying standards for the Olympic Games. One possible reform of the Olympic Games would be to exclude Paralympic athletes.
- Suggest reasons why Paralympic athletes should **not** be allowed to compete against able-bodied athletes at the Olympic Games. [4]

[Total: 30]

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