



Friday 16 May 2014 – Afternoon

GCSE PHYSICAL EDUCATION

B453/01 Developing Knowledge in Physical Education

Candidates answer on the Question Paper.

OCR supplied materials:

None

Other materials required:

None

Duration: 1 hour

MODIFIED LANGUAGE



Candidate
forename

Candidate
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** the questions.
- Section A – candidates should only circle one answer per question.
- 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 **60**.
- This document consists of **12** pages. Any blank pages are indicated.
- The quality of your written communication will be assessed in the question marked with an asterisk (*).

SECTION A

Answer **all** questions. Please circle one answer per question.

- 1** Which one of the following is an example of reducing risks and injuries during physical activities?
- (a) Always trying your best in an activity
 - (b) Wearing a mouth guard in hockey
 - (c) Playing to win at all times
 - (d) Shaking hands with your opponents after the game
- [1]**
- 2** Which one of the following is a short term effect of exercise on muscles?
- (a) An increase in muscle temperature
 - (b) A decrease in hypertrophy of muscle fibres
 - (c) An increase in rate of recovery
 - (d) A decrease in minute volume
- [1]**
- 3** Which one of the following is the best description of the movement allowed by a hinge joint?
- (a) Allows a wide range of movement
 - (b) Only allows rotation
 - (c) Allows for abduction and adduction
 - (d) Only allows flexion and extension
- [1]**
- 4** Which one of the following is an example of extrinsic motivation?
- (a) Enjoying exercising with weights in a gymnasium
 - (b) Feeling a sense of achievement after running a race
 - (c) Being satisfied with your efforts in trying to eat healthily
 - (d) Wanting to win the basketball tournament to get a trophy
- [1]**

- 5 Which one of the following is **not** a function of the skeleton?
- (a) To give support to the body
 - (b) To protect the heart and lungs
 - (c) To ensure enough oxygen reaches the working muscles
 - (d) To produce red blood cells [1]
- 6 Which one of the following is a problem that can be experienced with tendons?
- (a) Too much lactic acid can stop carbon dioxide intake
 - (b) Lack of synovial fluid can make them more fragile
 - (c) They can become inflamed following too much exercise
 - (d) Can inhibit breathing if they get too big as a result of exercise [1]
- 7 Which one of the following identifies the FITT principle?
- (a) Frequency, Intensity, Type and Tapering
 - (b) Frequency, Improvement, Type and Time
 - (c) Frequency, Improvement, Talent and Time
 - (d) Frequency, Intensity, Time and Type [1]
- 8 Which one of the following is a role of the International Olympic Committee (IOC)?
- (a) Selects the host city for the Olympic Games
 - (b) Selects the Olympic teams for each country
 - (c) Selects the officials for each Olympic track event
 - (d) Selects the most appropriate opening ceremony for each Olympic Games [1]

- 9** Which one of the following is a hazard in a swimming pool?
- (a) Concussion of a swimmer after diving in
 - (b) Broken lockers for your clothes and valuables
 - (c) Too much chlorine in the water
 - (d) Cutting your foot on the way into the pool [1]
- 10** Which one of the following is an example of a good role model when learning skills?
- (a) A professional athlete who has recently been caught taking performance enhancing drugs
 - (b) A coach who used to be an excellent player demonstrating a skill
 - (c) A friend who has recently given up drinking alcohol and seems more friendly
 - (d) A parent who regularly watches sport on the television [1]
- 11** Which one of the following is the best example of goal setting to optimise performance?
- (a) To focus on one thing at a time when training for a marathon
 - (b) Setting a target to score 15 goals in half a season in hockey
 - (c) Playing each game at a time and adjusting your hopes and ambitions as you go along
 - (d) The coach of an athlete promising a financial bonus if the athlete wins the next race [1]
- 12** Which one of the following pairs shows the difference between knowledge of results and knowledge of performance?
- (a) Knowledge of results is knowing how good your technique is and knowledge of performance is knowing your score
 - (b) Knowledge of results is knowing which tactics to use and knowledge of performance is knowing how fit you are
 - (c) Knowledge of results is knowing how fit you are and knowledge of performance is knowing which tactics to use
 - (d) Knowledge of results is knowing your score and knowledge of performance is knowing how good your technique is [1]

- 13** Which one of the following muscle groups is mainly involved in moving the arms when performing a press up?
- (a) Biceps and quadriceps
 - (b) Deltoids and hamstrings
 - (c) Pectorals and triceps
 - (d) Trapezius and latissimus dorsi
- [1]**
- 14** Which one of the following is a good description of plyometrics as a type of training?
- (a) A series of bounding, hopping and jumping movements
 - (b) A mixture of aerobic and anaerobic training methods
 - (c) Long distance running and walking with very little rest
 - (d) Short sharp pliability exercises with intervals of rest and work
- [1]**
- 15** Which one of the following shows how funding could be used to affect participation levels in physical activities?
- (a) To increase prize money to motivate the best performers to compete
 - (b) To build new facilities to provide activities for people
 - (c) To sponsor football players to advertise health products
 - (d) To help pay for private medical care for athletes
- [1]**

SECTION B

Answer **all** questions.

16 Describe **three** ways a six month training programme can affect muscles.

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- 2
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- 3
-

[3]

17 Describe fartlek training and identify **two** ways it can improve fitness.

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-
-

[4]

18 Explain how reduced funding or sponsorship can affect participation in physical activities.

[6]

19 Using a practical example for each, describe what is meant by the following terms for the roles of muscles in movement:

- Agonist

- Antagonist

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- Synergist

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- Antagonistic pairs

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[4]

20 Describe **two** features of circuit training as a method of training.

How would you use the fitness principles of overload, specificity and progression when planning circuit training?

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..... [5]

21 The International Olympic Committee and the British Olympic Association are organisations that promote participation in physical activities.

Describe how **two** other organisations promote participation in physical activities.

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2

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..... [4]

22 Describe the structure and use of cartilage in joints.

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23 Identify the components of the SMART principle of goal setting. Give a practical example for each component to improve performance in physical activities.

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- 24** Give **one** practical example of extrinsic feedback. Explain the use of different types of extrinsic feedback to motivate participants in physical activities.

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..... [4]

***25** Using practical examples, explain how you might reduce the risk of injury when performing physical activities outdoors.

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END OF QUESTION PAPER

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