

Tuesday 14 May 2013 – 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	
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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** 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**.
- Your quality of written communication is assessed in the question marked with an asterisk (*).
- This document consists of **12** pages. Any blank pages are indicated.

SECTION A

Answer **all** questions. Please **circle** one answer for each question.

- 1 Which one of the following is the most effective way of learning physical activity skills?
- (a) Reading a book on how to pass in hockey
 - (b) Training hard using plyometrics for rugby
 - (c) Through trial and error practice of serving in tennis
 - (d) Having a thorough health screening check before exercise [1]
- 2 Which one of the following is an example of a hinge joint?
- (a) The elbow joint
 - (b) The shoulder joint
 - (c) The spinal column
 - (d) The hip joint [1]
- 3 Which one of the following best describes a prime mover in muscle movement?
- (a) The muscle which produces the joint movement
 - (b) The muscle which counteracts the agonist
 - (c) The muscle which stabilises the joint
 - (d) The muscle which is attached to the ligaments [1]
- 4 Which one of the following is an example of the media encouraging participation in physical activities?
- (a) Phoning into a local sports' radio station
 - (b) Reading the sports' section in a newspaper
 - (c) Following your team's results on the internet
 - (d) Playing tennis after watching Wimbledon on TV [1]

- 5 Which one of the following is an example of private enterprise provision?
- (a) The council-run swimming pool
 - (b) The gym that tries to make as much profit as possible
 - (c) The rugby club's youth team
 - (d) The British Olympic Association [1]
- 6 Which one of the following is an example of reducing risks in a leisure centre gymnasium?
- (a) Let someone else work on the equipment after 20 minutes
 - (b) Always work at maximum effort
 - (c) Wear a brightly coloured top when training
 - (d) Store the weights away when you have finished [1]
- 7 Which one of the following is an example of sponsorship?
- (a) Paying to watch a football match
 - (b) The government pays for a new swimming pool
 - (c) A rugby club paying one of their players
 - (d) A local business pays to run a netball tournament [1]
- 8 Which one of the following is **not** a function of the skeleton?
- (a) To protect internal organs
 - (b) To provide the lungs with a blood supply
 - (c) To give the body its shape
 - (d) To provide leverage for muscle movement [1]
- 9 Which one of the following is a good reason for setting goals when participating in physical exercise?
- (a) To increase anxiety levels
 - (b) To move on to other interests
 - (c) To challenge yourself beyond your capabilities
 - (d) To try to work as hard as you can [1]

- 10** Which one of the following is an example of the best role model for learning physical activity skills?
- (a) A parent who is good at playing and teaching sports
 - (b) A friend who is not into sports but is willing to try
 - (c) A sports coach who wants to win by whatever means possible
 - (d) A top quality newspaper's sports coverage **[1]**
- 11** Which one of the following is the correct way to lift heavy exercise equipment?
- (a) Bending your legs rather than your back
 - (b) Bending your arms and your back
 - (c) Keep your legs and back straight
 - (d) Keeping your back bent and your arms straight **[1]**
- 12** Which one of the following describes the vascular shunt mechanism?
- (a) The body shunting air into the lungs
 - (b) The pushing action of muscles to aid bowel movement
 - (c) The redistribution of blood to the working muscles
 - (d) An increase in stroke volume to pump blood around the body **[1]**
- 13** Frequency is one of the FITT principles for training effectively.
- Which one of the following is an example of the frequency aspect of the FITT principle?
- (a) Training at 70% of maximum heart rate
 - (b) Training three times a week
 - (c) Training with few rest intervals
 - (d) Training by using a variety of methods **[1]**

14 Which one of the following best describes circuit training?

- (a) Travelling to different places to train
- (b) Training using the perimeter of the games pitch for running
- (c) A series of exercises or skill activities which are repeated
- (d) Exercises that are aerobic and involve dance movements

[1]

15 Which one of the following is a long-term effect of exercise on the muscular system?

- (a) An increase in tidal volume in muscles
- (b) A decrease in blood flow to muscle fibres
- (c) An increase in muscle fatigue
- (d) An increase in tolerance to lactic acid

[1]

SECTION B

Answer **all** questions.

16 Identify **three** ways in which a school may promote a healthy lifestyle.

- 1)
-
- 2)
-
- 3)
-

[3]

17 Describe **four** examples of different personal protective equipment used in physical activities and identify an activity in which each is used.

- 1)
-
- 2)
-
- 3)
-
- 4)
-

[4]

18 Describe **three** ways of using extrinsic motivation to encourage young people to lead an active and healthy lifestyle. Use examples for each way.

- 1)
-
- 2)
-
- 3)
-

[6]

19 Identify the type of joint found at the knee. Explain the role of the quadriceps and the hamstrings in flexing the knee.

- Type of joint
- Role of quadriceps
-
-
- Role of hamstrings
-
-

[4]

20 Describe **three** different types of feedback and give a practical example for each.

- 1)
-
- 2)
-
- 3)
-

[6]

23 When does the build-up of lactic acid occur? Identify **two** effects of the build-up of lactic acid.

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..... [3]

24 Explain how government initiatives can promote active and healthy lifestyles.

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..... [4]

11
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