



Examiners' Report June 2011

GCSE Physical Education 5PE01 01

Edexcel is one of the leading examining and awarding bodies in the UK and throughout the world. We provide a wide range of qualifications including academic, vocational, occupational and specific programmes for employers.

Through a network of UK and overseas offices, Edexcel's centres receive the support they need to help them deliver their education and training programmes to learners.

For further information, please call our GCE line on 0844 576 0025, our GCSE team on 0844 576 0027, or visit our website at www.edexcel.com.

If you have any subject specific questions about the content of this Examiners' Report that require the help of a subject specialist, you may find our **Ask The Expert** email service helpful.

Ask The Expert can be accessed online at the following link: http://www.edexcel.com/Aboutus/contact-us/

Alternatively, you can contact our Physical Education Advisor directly by sending an email to Penny Lewis on PEandSportSubjectAdvisor@EdexcelExperts.co.uk.

You can also telephone 0844 576 0036 to speak to a member of our subject advisor team.



Get more from your exam results

...and now your mock results too!

ResultsPlus is Edexcel's free online service giving instant and detailed analysis of your students' exam and mock performance, helping you to help them more effectively.

- See your students' scores for every exam question
- Spot topics, skills and types of question where they need to improve their learning
- Understand how your students' performance compares with Edexcel national averages
- Track progress against target grades and focus revision more effectively with NEW Mock Analysis

For more information on ResultsPlus, or to log in, visit www.edexcel.com/resultsplus. To set up your ResultsPlus account, call 0844 576 0024

June 2011

Publications Code UG028518

All the material in this publication is copyright © Edexcel Ltd 2011

Introduction

Despite being the first examination series candidates were well prepared and as with the previous series a complete range of marks were achieved. Candidates did not appear phased by the format of the paper, working through the multiple choice, short answer and then essay questions.

As with previous specifications this specification and examination paper requires the candidate to apply their knowledge, the more straight-forward examples that candidates can give the more likely they are to gain credit, the most obvious responses are normally the correct ones!

The most successful candidates on the paper scored highly across the paper, including the newer topics on the specification:

- The role of serotonin
- Key influences on choice of activity
- Sports initiatives
- The range of roles in physical activity
- Fitness tests
- Identifying and plotting heart rate values

The less successful candidates:

- Did not appear to have the same breadth of knowledge of the specification topics
- Experienced difficulty when providing specific examples when required
- Essay responses were often difficult to interpret due to standard of written communication

Implications for future teaching

Where centres are teaching the theory content through the practical, continue to do so; this helps candidates apply their knowledge and gives them a greater bank of examples to draw from for their responses. In this years examination paper this will have helped with questions on fitness tests; aerobic and anaerobic work; PEP; methods of training; target setting; the roles available in physical activity and immediate effects of exercise on the body systems.

Exam Preparation Candidates should be encouraged not to repeat key question words in their answers (For example use of 'targets' in question 13gi). If the question asks for a number of reasons/responses candidates should vary their answers to make sure their responses do not overlap. (For example question 7) Perhaps most importantly candidates should look for 'clues' to the answers in the questions. If there is a suggestion in the question of the content candidates may consider in their answer (for example question 14 & 15) then it is in their interests to use this information as a guide to ensure appropriate coverage of the required topics in their response.

Question 2 (a)

Whilst a large number of candidates successfully made the link between cooperation and working in teams/with others and therefore gained the mark, a surprisingly large number of candidates confused co-operation with communication, or even co-ordination and failed to access the mark. Another common error was referring to the social benefits of physical activity and how well you mixed in a team.



A good example to demonstrate the misreading of a question leading to an incorrect response. The candidate clearly thinks the question refers to co-ordination as they have repeated this in their answer.



It is so important to read questions carefully to make sure answers fit the question as asked rather than a different question.

2 Regular participation in physical activity is thought to be beneficial to the individual.

Explain how participation in physical activity can stimulate:

(a) Cooperation

(1)

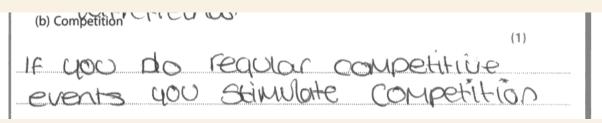
Cooperation, learn to work as a team, and

enjoy working as a team



Question 2 (b)

Answered well overall, as with 2(a) most candidates used team games to explain the opportunity for competition. Popular successful answers referred to playing 'against' others and wanting to win. Unsuccessful candidates tended to repeat the question words, for example, 'when you compete' which could not be credited, or gave specific examples of entering tournaments.





A good example of a poor response. The question asks the candidate to explain how competition is stimulated through physical activity. All the candidate actually does is rephrase the question stating that regular competition will stimulate competition.



Candidates should take care not to repeat question words when explaining key terms.

(b) Competition	(1)
makes you want to work harder	in
order to win, and beat others.	an migratura and a migratura a



This is a good example of a credit-worthy response. The candidate achieves 1 mark for correctly linking 'winning'/'beat others' with competition.

Question 2 (c)

This was designed as a differential question and did prove to be a good differentiator between candidates. Unsuccessful candidates failing to score as their answers tended to focus on target setting or 'standard' training sessions; these types of responses lacked the exaggerated demands required. Candidates achieving one mark often did so for describing the physical nature of the challenge. Some candidates achieved both available marks for linking the physical challenge with 'mental toughness'.



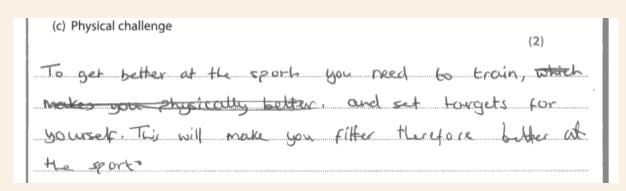


Candidate achieves two marks out of two for this response:

one mark for physically pushing body to limit one mark for being determined to carry on despite this

Results lus Examiner Tip

Check the number of marks available for a question, this will normally give you an indication of the number of statements or points you need to make, in this case a point was awarded for 'physical' and a second point for 'mental challenge'





This is a good example of an incorrect response. The candidate is attempting to explain physical challenge in terms of 'normal' training. The candidates' response lacks the 'extreme' set of conditions the question is asking for. No marks were awarded.

Question 3

This is the first time the content knowledge assessed in this question has been examined and candidates were clearly well prepared. The full range of answers was given although the most popular was increasing participation. The majority of candidates achieved one mark, where the second mark was awarded this tended to be for raising awareness/teaching in relation to a healthy active lifestyle or healthy eating.

3 Initiatives such as the Youth Sport Trust's TOP programme aim to contribute to the development of healthy, active lifestyles.

Briefly explain **two** ways that initiatives such as this can lead to a healthier, more active lifestyle.

1 Getting people from all backgrounds to

2 Cetting people to take port in a range of different sports.



The candidate has given a good explanation of one way that initiatives can lead to a healthier, more active lifestyle and has achieved 1/2 marks.



The question asks for two ways, therefore candidates need to ensure two different ways are referenced in their answer

3 Initiatives such as the Youth Sport Trust's TOP programme aim to contribute to the development of healthy, active lifestyles.

Briefly explain **two** ways that initiatives such as this can lead to a healthier, more active lifestyle.

1 It makes people take more physical activity so their fitness

improver

2 It could allow them to make new friends therefore improving their social well being



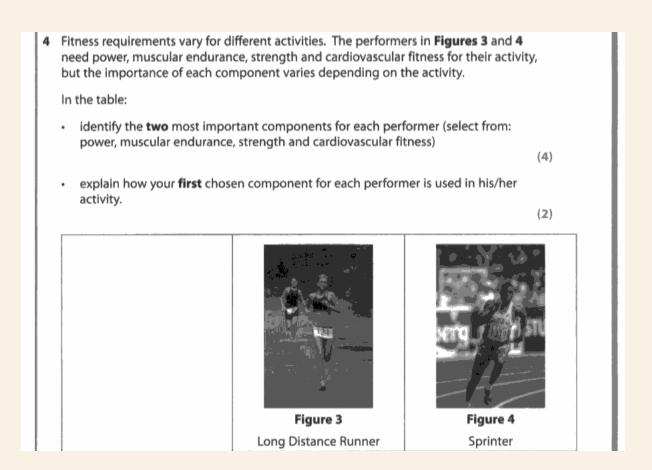
This is a good answer, the candidate scores 2/2 marks for identifying two different ways that initiatives can lead to a healthier, more active lifestyle: increased participation and potential improvement in social health through making friends

Question 4

This question has two distinct tasks. The first is to identify relevant components of fitness from a given list; the second to explain how the selected component is used by the performer.

Most candidates correctly allocated the components to either the long distance runner or the sprinter and therefore gained four marks. However, unsuccessful candidates failed to gain four marks where they used the same component twice, for example using cardiovascular fitness for both runners, or substituted another component not present on the list in the question, for example, flexibility.

The first part of the question was clearly designed to be the more accessible; to gain the remaining two marks candidates had to apply their knowledge. Successful candidates correctly explained how each performer used the selected component. Unsuccessful candidates often placed cardiovascular fitness as first choice for the long distance runner but omitted to state that this allowed them to continue for the length of the race without undue levels of fatigue. Candidates experienced less difficulty with the explanation for the sprinter, often relating answers to a 'good start'.



Important component used by performer	muscular	Power	
Important component used by performer	Choice 2 Cardiovascular fibress	Choice 2 musicular endurance.	
How first chosen component (Choice 1) for each performer is used in his/her activity	To do an activity for a long time without hiring.	Strength x speed being able to get outh off the starting block (get ochentage	Ke

Results lus Examiner Comments

This candidate achieves 5 out of 6 possible marks. The incorrect response is muscular endurance as choice 2 for the sprinter.

ResultsPlus

Examiner Tip

It is perfectly acceptable for candidates to change their mind when reviewing their responses. This candidate probably completed the first part of the question and then read the second part deciding at that point that cardiovascular endurance would be easier for them to apply

	Choice 1	Choice 1
Important component used by performer	Carollovascular fitness	Power
	Choice 2	Choice 2
Important component used by performer	muscular	Otrenth



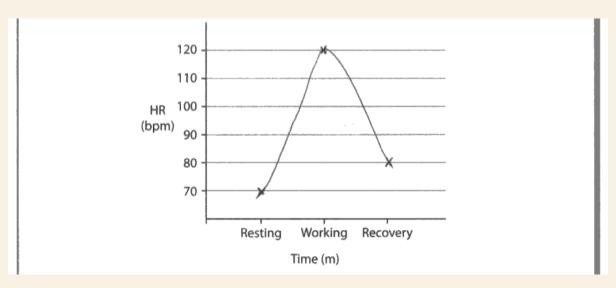
This is a 'typical' successful candidate response. Four out of four marks were gained for correct responses to the first part of this question

Question 5

Successful candidates plotted the value for recovery heart rate higher than resting heart rate to gain a mark and linked the values to create a line graph, however, many failed to achieve the second mark by either failing to plot the graph or using a bar chart rather than line graph.

The first part of this question was answered well, with most explaining that the working heart rate was the highest heart rate going on to state the correct reasoning for this. A smaller number of candidates referenced the need for increased oxygen transport and also gained credit.

Candidate explanations in relation to recovery rate were generally not so clear. Successful candidates stated that recovery rate was higher than resting whereas unsuccessful candidates did not make this clear.





This is a good answer. The candidate has clearly plotted the points and completed the graph to achieve both available marks for this part of the question. (2/2)

(b) Explain why you have plotted the values in this order.

I placed this value as working heart rate because

(1)

It is the nightst of all 3 and when working there is more oxygen needed than promote I placed this value as recovery heart rate because

(1)

It is slightly higher than resting as it has not completely repaid oxygen debt, it's still recovering (Total for Question 5 = 4 marks)



A good response scoring 2/2 of the available marks for this part of the question. The first statement clearly identifies this is when the heart is working the hardest (they also reference oxygen but this was not necessary). In the second statement they make clear reference to the recovery heart rate being higher than resting heart rate.

Question 6 (a)(i)

Whilst the previous specification did have content relating to diet the focus was not on a healthy active lifestyle nor applied to personal health. Unsuccessful candidates tended to focus on the emphasis from the previous specification, i.e. fitness and performance rather than the more general health focus required. Where answers related to weight gain these were not credited unless candidate response also identified that this was as a result of eating too much.

6 (a) Diet and rest are two important factors to consider when planning for a healthy, active lifestyle. How may diet and rest influence personal health?

(i) Diet

(1)

If you eat too much fatty foods you may become overweight. This puts you health at risk, If you eat



Candidates should be advised to look for the clues in the question. The last part of the question states 'influence personal health' therefore this is not a question on fitness.



This candidate successfully identified the potential link between overeating/eating too much fat and becoming overweight

6 (a) Diet and rest are two important factors to consider when planning for a healthy, active lifestyle. How may diet and rest influence personal health?

(i) Diet

(1)

If the diet you could loose megnt an became more filter.



An example of an unsuccessful response. This candidate has misinterpreted the use of 'diet'. Their response refers to dieting rather than what you eat.

Question 6 (a)(ii)

Rest and recovery is a new addition to the specification therefore it was pleasing to see so many candidates making the link between rest and recovery in their responses. Unsuccessful candidates identified repair of the body, rather than repair of the muscle and did not gain credit. Other incorrect responses included rest being described as a problem, which would lead to reversibility, or the need to keep exercising to prevent atrophy rather than the need for appropriate rest for recovery.





This candidate achieves the mark available for this question. They actually give two appropriate responses allowing time to 'destress' and 'time to recover'



Candidates should be careful when giving more than one response if only one is required. If the first response is incorrect the answer will be marked as wrong. This is to avoid the situation where candidates are unsure of the answer and so give a few in the hope that the examiner will select the correct one on their behalf.



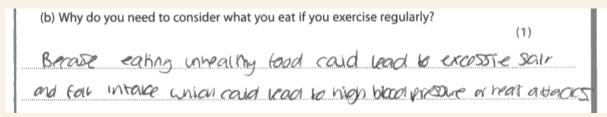


This candidate response was credited as answer states if you don't rest injury can occur, in other words they presented the 'reverse' point to that on the mark scheme which was valid and therefore credited.

Question 6 (b)

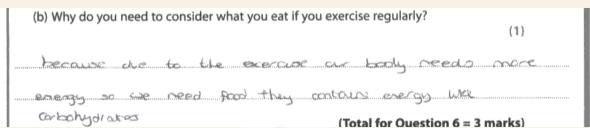
Valid responses were given by the majority of candidates the most popular correct response linking carbohydrates as a source of energy or the need for an energy balance between input and output.

Unsuccessful candidates gave vague responses about the need for a balanced diet/good diet or responses that would have been better placed in (ai).





This was an incorrect response for this question however, would have been a good answer to part 6(ai). Here the emphasis should have been on exercising regularly rather than personal health.

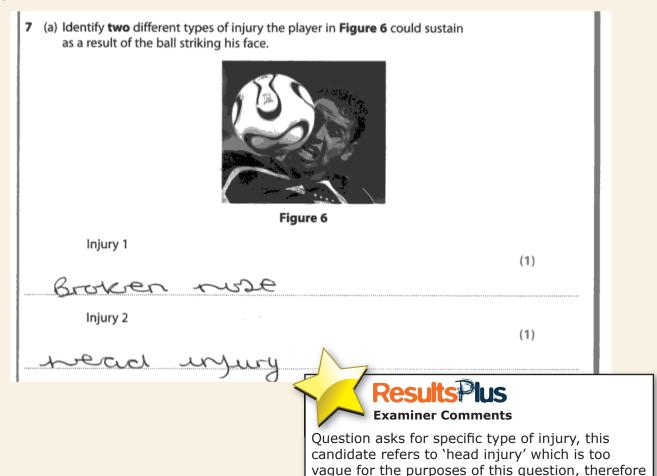




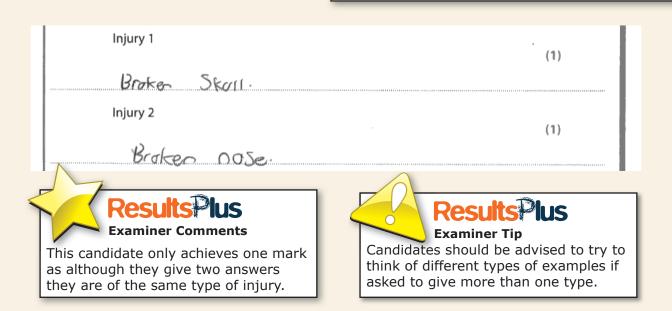
This is a good answer and gains the available mark. The candidate recognises that more energy will be required and this can be sourced through carbohydrates

Question 7 (a)

Whilst examination papers require differential questions, they also require accessible questions to achieve a balance. This question was designed to be accessible and the majority of candidates gained both possible marks. Successful candidates used the image to give 'obvious' answers, for example, broken nose; black eye. Where candidates were unsuccessful this tended to be because they gave two examples of the same 'type' of injury, for example broken nose; broken jaw. Other incorrect responses were those where candidates simply stated break or fracture without identify the specific area that was broken/fractured.



candidate only gains one mark for first response



Question 7 (b)

This was a very accessible question with the majority of candidates providing the correct response. The mark scheme credited RICE; rest, ice, compression and elevation and the more recent method of treatment: rest, ice, comfortable support, elevation.

Question 7 (c)

The full range of marks was achieved for this question. Successful answers included rules; warm-up; items of clothing and checking activity area. Unsuccessful candidates listed injuries rather than give risk reduction measures, or, as with question 7 (a) gave two or three examples of the same 'type' of risk reduction method, for example, stating two rules from the sport; two ways an activity could be balanced or two items of protective clothing.

(c) Different measures are put in place to reduce the risk of injury in physical a	ctivity.
Give three different types of examples to demonstrate how risk of injury is reduced in an activity of your choice.	(3)
Chosen activity Football	
Risk reduced by: 1 Velgung the stude down on a sliding to	www.
Risk reduced by: 2 Hund bull- Kelpuig hands elbows clown	1
Risk reduced by: 3 Shur pads - Save getting studied in fun's	He



This candidate scored two marks for this question. They failed to achieve maximum marks as they repeated a 'type' of answer. I.e. 'studs down in tackle' and 'elbows down' are both rules.

Chosen activity ngby Risk reduced by: Rules, so people don't cheat and end up takking wrong causing someone to glet nut, play to the whistle Risk reduced by: protective equipment (gum sheild) so peoples teeth don't ORE MOUNTED OUT, SOMETIMES Shin pools to STOP leg injury in takling. Risk reduced by: 3 & Women contrampete men. Men ove a lat stronger therefore their touries may injure women so they are noven weather.

Examiner Comments

A good response to this question scoring maximum marks as each risk reduction measure is of a different 'type'

(Total for Augetian 7 - 6 marke)

Question 8 (a)(i)

Peptide hormones/EPO was less well known than other drugs, of all of the questions in this section this was the least well answered, narcotic analgesics or anabolic steroids were often incorrectly stated instead.

Question 8 (a)(ii)

This aspect of the question was well answered. Questions have appeared on previous papers in relation to narcotic analgesics, this might explain why this particular drug is better known amongst candidates.

Question 8 (a)(iii)

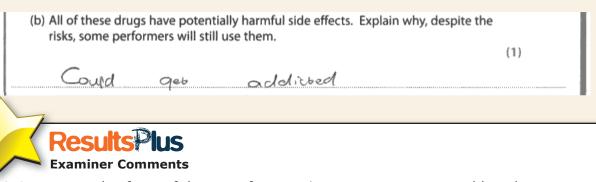
Beta blockers was the correct response for this question. Of those candidates that attempted question 8(a) the impact of this drug was well known.

Question 8 (a)(iv)

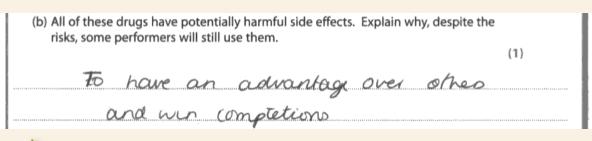
Diuretics were correctly selected by successful candidates in answer to this question. Popular unsuccessful answers were anabolic steroids and narcotic analgesics

Question 8 (b)

This was a very well answered question. Winning or improved performance were identified by most candidates gaining them the mark. Unsuccessful candidates either referred to a specific drug and why a performer may take these e.g. diuretics for weight loss or discussed health issues which did not gain credit as specifically stated in question to avoid this category of answer.



This is an example of one of the more frequent incorrect responses as although potentially true in some instances this is not the area of knowledge being tested through GCSE Physical Education. To try to avoid this type of response the question states apart from health risks. The majority of candidates did give a valid response to this question.

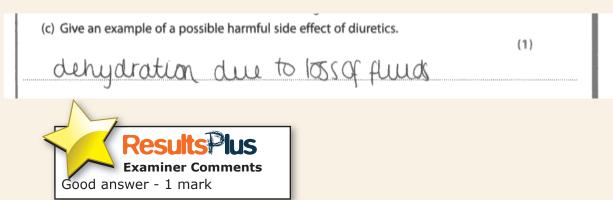




An example of a popular correct answer. This candidate gained 1/1 for identifying that performers might still take drugs to give themselves an advantage.

Question 8 (c)

Whilst the majority of candidates correctly identified dehydration as a potentially harmful side effect, unsuccessful candidates linked diuretics to heart attacks; impotence or a variety of other health issues.







Question 9 (a)

A surprising number of candidates failed to correctly state the body systems as cardiovascular and respiratory, instead stating heart or lungs and occasionally throat.

Clogging up arteries and high blood pressure were common incorrect responses for cardiovascular health risks, as was breathing problems and oxygen transport for the respiratory system. Although these statements are true, they lead to the overall health risk required by the mark scheme, i.e heart attack, emphysema, lung cancer.

- **9** Although not illegal, smoking can have dangerous side effects on the body.
 - (a) In the table:
 - name the two body systems that can be seriously damaged by cigarette smoke
 - state a health risk associated with smoking for each of these systems.

(2)

Body system damaged by smoking	Health risk associated with smoking for this system	
Lungs	lung cancer	
heart	heart dusease	

ResultsPlus

Examiner Comments

This response gains 2/4 possible marks. The candidate was credited for their correct answers in the second column of the table as they did not conflict with the (incorrect) responses in the first column. Had the candidate selected an incorrect system, for example, the muscular system and linked this to lung cancer this would not have been credited as the mark for the response in column two is for an effect on the system identified by the candidate in column 1.

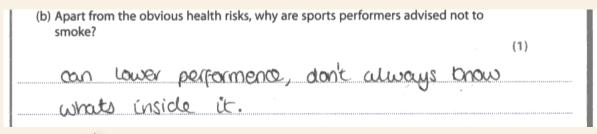
Body system damaged by smoking	Health risk associated with smoking for this system
Respiratory Respiratory	Lung diséase.
Circurarmy System	Meart disease.



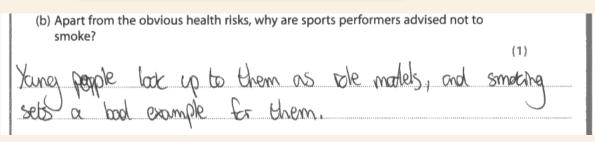
This is an excellent answer, achieving 4/4. Both systems are correctly identified and an example of a corresponding health risk associated with smoking for that system has been selected by the candidate.

Question 9 (b)

Many pupils referred to role model/image and gained the mark, with a similar proportion identifying a decrease in CV fitness or performance as a reason. Stating that smoking affected performance without implying a decrease in performance was a frequent error, as was mixing up problems with oxygen uptake rather than that of the transport of oxygen in the blood. These general comments about it damaging the lungs/making breathing harder were a major problem with answers to this question, causing many to miss out on the mark





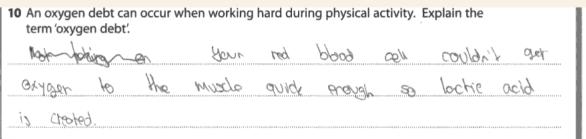




Another correct response for 1/1. This candidate accesses the mark by referring to role models and therefore sports performers should not smoke in case they influence others to do so.

Question 10

This was a differential question and as such proved problematic for a large number of candidates. Although the question only demanded recall rather than application of knowledge it is a complex concept. Candidates often failing to state that it was a feature after exercise or anaerobic work and based their answer on problems with a lack of oxygen during exercise. Using the term 'air' rather than oxygen also lost pupils marks. Very few pupils gained all 3 marks, with point 3 and 4 very infrequently referred to as expected from a differential question.





This response gained no credit (0/3). The candidate appears to have a vague notion regarding the concept but insufficient detail is given. They appreciate that red blood cells carry oxygen and that lactic acid will accumulate if insufficient oxygen but the question asks for an explanation of the term not what causes it to occur.

10 An oxygen debt can occur when working hard during physical activity. Explain the term 'oxygen debt'.

oxygen debit is the extra amount of oxygen consumed after a period of aneiterobic activity companed to the amount which would nave originally been consumed in the same time at rest (resultin a shortfall of oxygen).



An excellent response, the candidate scored 3/3. They clearly identified:

- this was an amount of oxygen required
- after exercise
- and that this amount was greater than it normally would have been at rest

In fact had four marks been available for this question the candidate makes the fourth point stating that this is due to a shortfall in available oxygen.

Question 11

Most pupils identified movement and gained at least 1 mark, with protection of vital organs also a common answer for the second mark. Marks were lost when pupils did not refer to 'vital organs' in their description of protection, just giving a one word answer rather than the required example. Shape and support were often mentioned but very poorly explained often failing to yield a mark. There was some mention of blood cell production, usually linked to oxygen carrying energy production. It should be noted that these responses (shape/support) are no longer on the specification and will not therefore need to be covered by centres.

- 11 The skeletal system has a very important role to play in allowing us to lead a healthy, active lifestyle. Give **two** examples to demonstrate how the role of the skeleton helps us to be active.
- 1 It makes our body parts move, movement
- 2 protection



This response gains 1 out of a possible 2 marks. The first example is credited as it relates to movement. The candidates second answer 'protection' does not get the mark as simply states a function rather than an example of how 'protection' is used in activity.

11 The skeletal system has a very important role to play in allowing us to lead a healthy, active lifestyle. Give two examples to demonstrate how the role of the skeleton helps us to be active.

1 The sheleton protects your body's organs.
eg. The ribcage protects your lungs from impacts
2 The sheleton allows your body to move
and supports you allowing you to run.



This response gains 2 out of 2 marks. The candidate clearly identifies two functions of the skeleton and addresses the question by applying these functions to an active setting: protecting lungs from impact (in games situations); allows us to move, for example run.

Question 12 (a)

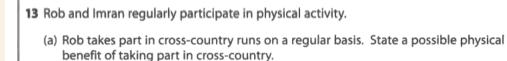
The majority of candidates gave the correct answer for this question, selecting biceps as their response. The most popular incorrect answer was tricep.

Question 12(b)

The majority of candidates gave the correct answer for this question, selecting abduction as their response. The most popular incorrect answer was adduction or ball and socket.

Question 13 (a)

Answered well, with most candidates linking cross-country running to increased fitness or naming a fitness adaptation. Vague comments such as increased muscle tone, improved cardiovascular system stopped pupils getting the mark. Weight loss and improved body shape were also common errors, as pupils were required to state that if overweight weight loss would be a benefit as clearly if already at the 'correct weight' this would be damaging to health.



good for the body



This response was too vague and therefore failed to gain the mark (0/0). Candidates had a wide range of responses they could have used, for example, any fitness adaptation as a result of regular training; any improvement in one of the components of fitness or any long term health gain

13 Rob and Imran regularly participate in physical activity.

(a) Rob takes part in cross-country runs on a regular basis. State a possible physical benefit of taking part in cross-country.

(1)

Straight forward answer worth 1/1 mark. A physical benefit of taking part in cross country could be increased fitness.

Examiner Comments

(1)

Question 13 (b)

This question was designed to test candidates' knowledge of the participation triangle. Rather than simply draw the triangle and ask candidates to label or describe the stages candidates were given a description of a performer's involvement in physical activity and asked to identify the correct stage. Candidate responses relating to performance or elite stage were credited.

Question 13 (c)

Very few candidates selected more than one of the fitness tests, the few that did could not access marks for this question, as 'the most relevant' was not selected. The majority of candidates however did successfully select the agility run and correctly explained the link with football often giving examples of quickly dodging or turning other players.

(c) Imran plays for the school football team. At the start of the season the team undergo a series of fitness tests. In the table below:

tick the most relevant fitness test for a football player (not goalkeeper)

(1)

· explain why this fitness test is relevant to Imran.

(1)

	Tick most relevant fitness test for football player	Explanation why this fitness test is relevant to football player
Illinois Agility Run	_/	because a football player needs to be able charge direction
Hand grip strength test		quickly with the ball to try to get pass the opponents
Standing Stork test	,	



A good answer. Candidate achieves 2 marks out of 2 for selecting the correct fitness test and explaining why the test is most relevant

	Tick most relevant fitness test for football player	Explanation why this fitness test is relevant to football player
Illinois Agility Run		It measures
Hand grip strength test	/	Heir power.
Standing Stork test		*



This is an incorrect response and gains no marks. The candidate fails to select the most relevant test for the footballer, selecting instead a test for hand grip strength. The justification for selection of this test is inaccurate in relation to the footballer.



Candidates should try to look for the most obvious answer, or clues in the question. This candidate selected a test that measured grip strength, as the performer is a footballer (not a goalkeeper) they will not use their hands in normal play to weald a racket for example thus this test should have been discounted by a process of elimination.

Question 13 (d)

This question tested candidates' knowledge of the principles of training, asking candidates to identify a training principle based on its brief description. The required answer was 'specificity' and the majority of candidates correctly identified this principle. Some candidates incorrectly stated individual needs, missing the important part of the description that stated the training should match the needs of the activity.

Question 13 (e)

The majority of candidates correctly stated one of the training methods from the specification. Some methods of training lent themselves more readily to application to the physical activities in the question (long distance running and football). Those candidates selecting circuit training or Fartlek invariably scored more marks in the second part of the question than those selecting continuous training.

The second part of the question did not require a great deal of detail, for example, successful responses in relation to Fartlek referred to the need to adapt the training method by focusing on the change in terrain for the long distance runner, compared to varying pace for the footballer.

Popular unsuccessful responses focused on the benefits of the training method rather than how it would be adapted.

- (e) Some training methods can be adapted to suit different activities. In the table below:
 - name a training method that Rob and Imran could both use for their activity

 (1)
 - explain how each boy would adapt this training method to suit his own activity.

Training method that can be used by both boys

How training method would be adapted by Rob (Cross-country runner)

Rob could do his tourning or fortlek training by the country torreing by he is used to running or hornwhy would in a yome situation, he could have would be adapted by Imran (Footballer)

Fortlek training or fortlek training of frees be have situation, he could have yome situation, he could have your situation, he could could be walk, buy walk, boy out then do short burglis



This is a good answer, achieving 3/3 marks. The candidate selects a relevant training method and then outlines how this might be adapted for each performer.

- (e) Some training methods can be adapted to suit different activities. In the table below:
 - name a training method that Rob and Imran could both use for their activity

explain how each boy would adapt this training method to suit his own activity.

(2)

Training method that can be used by both boys	How training method would be adapted by Rob (Cross-country runner)	How training method would be adapted by Imran (Footballer)
weight braining.	be adapted by rob is he will be able to use voluntry muscles with out his muscles being fatigues when moving.	Imran will adapt onis as he will be able to hold of players when defending one balls



Out of the three available marks the candidate gains one mark. The mark is awarded for correctly identifying a method of training that could be used by the two performers (cross country runner & the footballer). The candidate fails to gain credit in the second part of the question as they do not give a brief description of how the training method could be adapted for each performer. Their answer focuses more on why they should use the method of training. A suitable response would have centred around light weights with many repetitions for the cross country runner (focusing on legs) and heavier weights and fewer repetitions for the footballer, (working on upper and lower body).

Results lus Examiner Tip

If there are two parts to the question and the second part requires application of the first candidates should make sure they look at both aspects of the question before deciding, in this case, the method of training, as some methods will have more obvious links to the activities stated in the question. Candidates who selected Fartlek training tended to score well in both parts of the question.

Question 13 (f)(i)

The correct answer was aerobic; the vast majority of candidates correctly selected this response.

Question 13 (f)(ii)

The correct answer was anaerobic; whilst some candidates mistakenly selected aerobic, the majority of candidates did correctly select anaerobic based on the description of the activity in the question.

Question 13 (f)(iii)

Some candidates selected aerobic for this question, possibly guessing, incorrectly, that the answers would alternate rather than using the decriptions in the question.

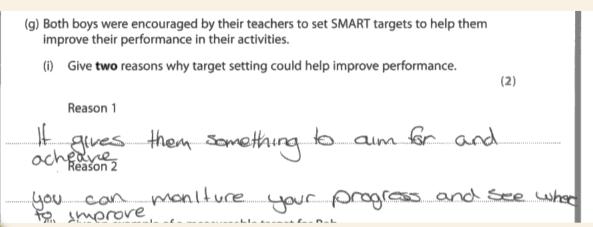
Very few candidates opted for either aerobic or anaerobic for all four answers to question 13 (f).

Question 13 (f)(iv)

The correct answer was aerobic; the vast majority of candidates correctly selected this response.

Question 13 (g)(i)

There was a large variation in answers to this question, with many candidates correctly identifying motivation and something to work towards as benefits of target setting. The main mistake in answering this question occurred when candidates simply stated the elements of SMART goal setting without stating why it improves performance.





This is a good answer achieving 2/2. The candidate identifies two different reasons why target setting could help performance, the first relating to an aim/goal or focus to training; the second relating to monitoring of progress.

- (g) Both boys were encouraged by their teachers to set SMART targets to help them improve their performance in their activities.
 - Give **two** reasons why target setting could help improve performance.

(2)

Reason 1

Reason 2

Gives you a good to ain for Reason 2 Lelps you work appeigic avers



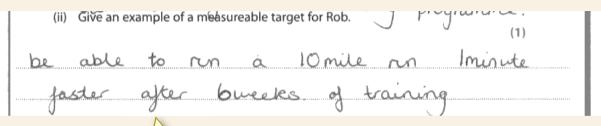
This candidate response was credited with 1/2 marks. Credit was given for reason 1 'having a goal to aim for'. Credit was not given to reason 2 as this was felt to be a repeat of reason 1, i.e. it provided a focus, a goal, an aim.



When asked for a number of reasons or examples candidates should be advised to think of different types or categories of responses (unless the question states otherwise) to maximise marks.

Question 13 (g)(ii)

A wide variety of responses from candidates, of these, some were vague, for example, increased fitness, train more, and therefore did not gain the mark. Those responses which stated goals that could be measured, even if verging on the unrealistic, for example run a mile in three minutes, were credited as the target was measurable and the question did not ask for realistic and measurable targets, only where responses were totally unrealistic was credit not given, for example, run 40 miles in 20 minutes or complete the 12 minute Cooper Run in under 5 minutes.





This was a good answer. The candidate achieves the available mark; their response gives a measurable target as required by the question: run 10 miles 1 minute quicker' and they make the target time bound.

(ii) Give an example of a measureable target for Rob.

(1)

the time in which he completes a specific

(1055-country race-



Although this candidate had some idea of the theory of a measurable target they did not apply this knowledge to give an example as required by the question. Slight modification to this answer would have gained the mark. For example, "improve his time in his next cross country race by 10 seconds".

Question 14

The responses to this question varied, but overall candidates coped well with the essay style questions, with a large number of students gaining 4-6 marks, the requirement for balance across all three areas of the question was a good differential measure.

A large proportion of candidates could identify the types of roles available, or how to remain in physical activity, linking the personal qualities needed to fulfil the roles available. Some responses however did not make it clear which qualities were related to which roles, often saying 'all of these roles require...' and therefore could not access the available marks. Some candidates also failed to explain how the range of roles provides opportunity for all to stay or become involved in physical activity, however those that did respond did so effectively with coherent, but often brief responses; the most common correct example being 'when you are not good enough to play you can teach' or 'when you are too old to continue to play you can teach'. Where candidates failed to access the level 3 marks this was normally due to their responses not spanning all three aspects of the question.

Unsuccessful candidates misinterpreted the question, focusing instead on one of the following:

- PESSCL and the participation pyramid
- Positions/roles within an activity discussing different playing positions
- Initiatives such as start; stay; succeed
- Influences in physical activity discussing resources; socio-economic group and so on
- A 'healthy, active lifestyle' discussing physical; mental and social benefits of physical activity

The marks awarded for QWC were generally good with the majority of students writing in continuous prose with sound spelling, punctuation and grammar. Most answers communicated their ideas effectively.

***14** Explain how the range of roles available in physical activity should provide sufficient opportunity for all to become or remain involved in sport/physical activity.

In your answer you may consider:

- the range of roles available to become, or remain, involved in physical activity
- the personal qualities needed to fulfil the range of roles available in physical activity
- how the range of roles provides opportunity for all to stay or become involved in physical activity.

The are lots of ways to become, or remain involved in physical activity, such as, being a performer or player in a sport,

empiring coaching and being a trainer If you are not good at playing a sport Like football you may still be able to take part in the sport by empiring if you know the rules or coaching if you are good at teaching people how to play:



This was a good answer, scoring 5/6 marks. The candidates answer demonstrates that there is no need to write long answers to make sufficient points to meet the question requirements. Had this candidate identified the qualities of a player more clearly or had better spelling (empiring) they would have achieved all 6 marks.

Credit was given for the roles available (performer/official/coach); the qualities required of an official (knowing the rules); why range of roles is inclusive (not good at playing but can umpire).

Credit was not given for the qualities of a coach as this was considered too vague a response.



Candidates should be encouraged to be concise in their answers; there should not be a need for additional pages.

*14 Explain how the range of roles available in physical activity should provide sufficient opportunity for all to become or remain involved in sport/physical activity.

In your answer you may consider:

- the range of roles available to become, or remain, involved in physical activity
- the personal qualities needed to fulfil the range of roles available in physical activity
- how the range of roles provides opportunity for all to stay or become involved in physical activity.

There are many roles you can become involved with to remain involved with physical activity each as Officials and Coaching. To be an official epo need a strong personally so people will listen and take the came seriously for a coach for need to be good at motivaling people and you also need to have a good knowledge of the sportyauself



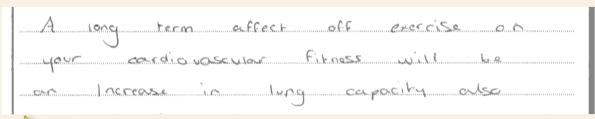
This candidate accesses four content marks within their first paragraph. They identify two roles: officials and coaches; they then describe some characteristics required for each role: strong personality for the official; good motivator for the coach. The candidate response is well written and would gain quality of written communication marks.

Question 15

Candidates who had structured their essay to write about the short term effects of each system and then the long term effects scored well. Overall a wide variety of responses were seen for this question, unsuccessful candidates were unable to identify any immediate or long term effects whilst others gave responses worthy of AS level, demonstrating an extensive knowledge of the subject.

Many candidates referred to an increase in heart rate and muscle fatigue as short term responses and the most common long term responses were an increase in strength/size of heart, a drop in resting heart rate or faster recovery rate and increased strength of skeletal muscle. Relatively few candidates correctly identified an increase in systolic blood pressure, an increase in carbon dioxide production or an increase in temperature as short term effects.

Few candidates identified increased maximum cardiac output, increased capillarisation, increased strength of tendons/ligaments, increased mitochondria and myoglobin as long term effects, although these responses were given. Relatively few candidates failed to access the level 3 marks as they focused on either immediate or long term effects rather than giving examples of both. As with question 14, the marks awarded for QWC were generally good with the majority of students writing in continuous prose with sound spelling, punctuation and grammar.





This section of the candidates response gained no marks as the candidate has confused the respiratory system with the cardiovascular system.

*15 A healthy, active lifestyle will have an impact on the body systems. Describe some of the effects of participation on the body's cardiovascular and muscular systems.

In your answer you may consider:

- · the immediate and short-term effects of participation on each system
- the effects of regular participation and long-term effects on each system.

The Short term effects of exercise on the cordiovascular system are on increase in heart rate as more oxygan is needed to be purposed in blood to working muscles. Stroke whome indecreases as you are pumping more blood out. Vasodilation

The long term effects are a bigger heart muscle which is stronger and can pump more blood out. There is a decrease in resting heart rate as the heart is more efficient and con pump more blood around the the body with each contraction.

The short term effects on the muscular system is that muscle fibres tear a little bit when we exercise. The muscles also get fatigued after we The long term effects of exercise on the muscular system.

System are an increase in muscular andwance as they

they become stronger and bigger.

Another long term effect of exercise on the condicuascular System is an increase in condicuascular filmess so muscles can get more exagger and can work for longer. There is also a decrease in strole volume.



This is an excellent answer scoring 6/6. The candidate begins by stating short term and then long term effects of participation on the cardiovascular system and then for the muscular system. It is clear from their responses which type of effect is taking place (short or long term) and which body system is being affected. Marks were gained for quality of written communication and relevant content:increased heart rate (ST)increased demand for oxygen in muscles (ST) increased heart size (LT)drop in resting heart rate (LT)muscle fatigue (ST)increased muscular endurance/ strength (LT)

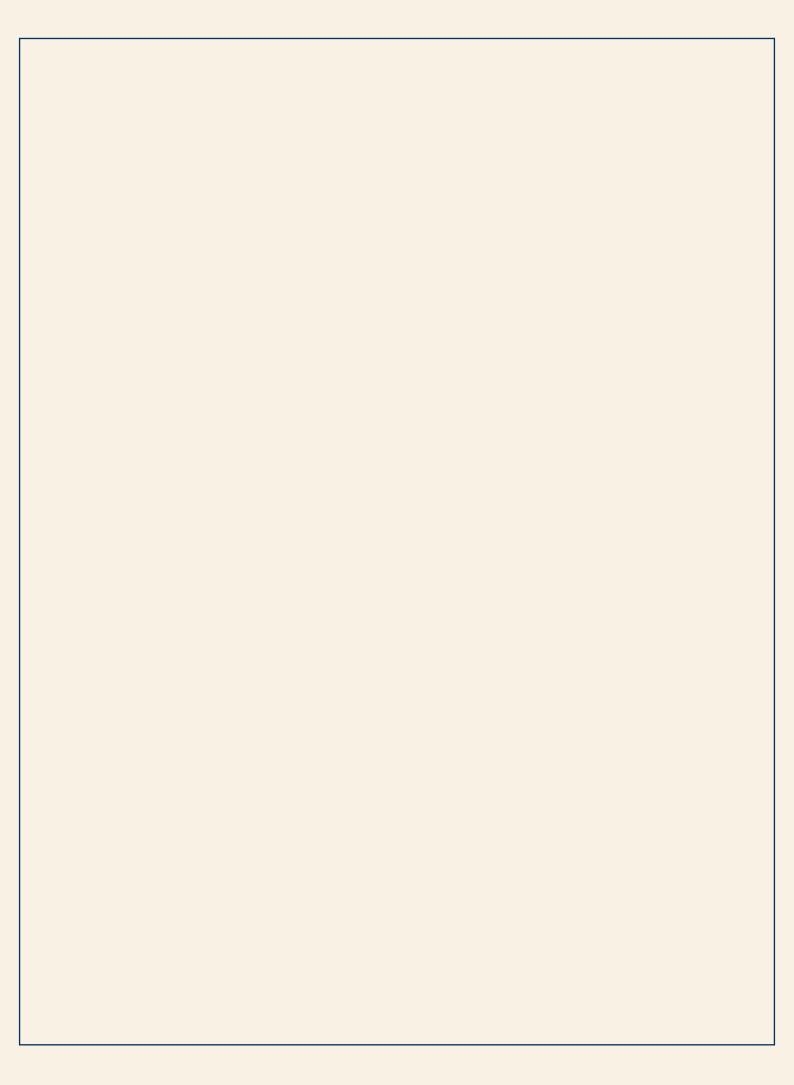


Candidates should be advised to use the bullet points to plan their responses

Paper Summary

- In order to improve their performance candidates should:
- Read the questions carefully
- Look for 'clues' in the questions as a guide to where to pitch their responses
- Give obvious examples (do not try to be too clever!)
- If the question asks for two examples and gives two spaces to record them use both spaces, do not put both answers in the first space; do not leave a blank
- Use the bullet points in the essay questions as a guide and make sure you comment on every bullet point in the order they are given
- Try to keep within the space allocated for your responses, there should be enough room!

Grade Boundaries
Grade boundaries for this, and all other papers, can be found on the website on this link:
http://www.edexcel.com/iwantto/Pages/grade-boundaries.aspx



Further copies of this publication are available from Edexcel Publications, Adamsway, Mansfield, Notts, NG18 4FN

Telephone 01623 467467 Fax 01623 450481

Email <u>publication.orders@edexcel.com</u> Order Code UG028518 June 2011

For more information on Edexcel qualifications, please visit www.edexcel.com/quals

Pearson Education Limited. Registered company number 872828 with its registered office at Edinburgh Gate, Harlow, Essex CM20 2JE





