Qualification Accredited



GCSE (9-1)

Exemplar Candidate Work

PHYSICAL EDUCATION

J587For first teaching in 2016

J587/01/02 Summer 2019 examination series

Version 1

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Introduction

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Please always refer to the specification https://www.ocr.org.uk/lmages/234822-specification-accredited-gcse-physical-education-j587.pdf for full details of the assessment for this qualification. These exemplar answers should also be read in conjunction with the sample assessment materials and the June 2019 Examiners' report or Report to Centres available from Interchange.

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Component 01 Question 21b

(b)* Specificity is one principle of training that would allow a gymnast to focus on relevant exercises suited to their routine.

Using practical examples, explain the use of other principles of training in a gymnastic training programme.

Evaluate reasons why some gymnasts may use beta blockers within their training programme.

......[6

Exemplar 1

6 marks

Progressive means the training must get gradually harder in order to force the tody to adopt and ullowbord bluow teanmy ant moon bluck ant. evongmi inciease the lengths of truining sessions or make them harder Overload is where the body needs to be pushed beyond what it can comfortably do in order to stress it to adopt. Consequently the gymnast may want to make the training horder and a higher intensity I holding the balances for langer to improve muscle enditions. Roversibility Means they must keep training or titness E bruone nunt buods transmyo ent fool ad life 20100. times a week every week to avoid loosing fitness gra gams liumnosts may use beta blockers as beta prockors horb corrus thow your and brondy adienatine rishos. This will prevent the aumnost Shack Shaking or feeling shessed which could otherwise impact their conformance. If they were stating during a balance it would be harder to hald when

training. It may also be calm them down unide would help them focus on their routine and improve performance. However, it can lower the heart rate and blood pressure [6] which could be danguras for the gymnast.

Beta blockers help fine motor skills, so they may hot help gymnasts if they are performing a ground routine with lats of fups and movements that mount different parts of the bady.

Examiner commentary

This response shows detailed knowledge and understanding of the principles of training. Each principle is clearly explained and a suitable application of each principle to support a gymnast's training programme has been given. It is important for candidates to show that reversibility must be avoided, and this is demonstrated in this response. Several reasons for the use of beta blockers have been evaluated. Throughout the response there are clear and consistent practical applications of knowledge to gymnastic performance and to a gymnast's training programme.

Exemplar 2 5 marks

gradually make the training narrow (by increasing intensity duration etc.) in order to improve fitness. The gymnast would do this to make sure they are improving. O stands for Overload, this means pushing your body auring training so that your body has no adapt to this harder work and thus improves the skill fitness. For The gymnast would use this to make sure their body is working as hard as it can in order to improve fitness. The R stands for reversibility, this is the process in which you can lose fitness by not training (due to illness, pregnancy etc.) The

aymnast would use this principle by ma training regularly so that they don't lose fillers. The V stands cor vouriety, the game this means making sure there are a variety of exercises and training methods. The gymnest would use this to make sure they not only touget different muscle groups (in so that they don't overwork them) but also stay motivated as they aren't along the same thing over and over again. Beta blockers reduce your heart rate and 6100d pressure, they also give you a steady hard and reduce anxiets. The gymnost may use them because [6] they get very nervous and anxious before a competition or so that they don't shake while performing. The gymnast may take beta blocker because she want to enhance her training as she feels a lot of pressure from herself and others to do well. The gymnat may want to win at our costs. The pymnast way also take them because they believe that the other competitors are toucing them and don't want to be at a disadvantage.

Examiner commentary

This response shows a very good knowledge and understanding of the principles of training. There is also a detailed range of reasons for the use of beta blockers. These reasons include physiological and psychological benefits, together with other arguments for their use, such as having a win-at-all-costs attitude and believing that others are also using them.

This response could be improved by applying the principles of training to a gymnast's training programme. For example, overload could be applied by training for longer periods of time, or at a higher intensity by lifting heavier weights in the gym. Progression could be applied by showing a gradual increase in the weights that are lifted, i.e. a 10% increase in weight.

The other principles q training a gymast
may use are progression overload and
Reversibility. Progression is the gymnast training
becoming progressively harder for example
on day one of the training program she will
be abel to do one cartwheel, then the next
she will be abel to do two in a row. This
is important as it means improvements
will occur and training will not reach a
plateau (point when improvement stops).
Overload may also be a principle q training.
this means increasing the intensity of
the gymnastic exercise for example
training will be at their max heart Rate
(220-Age) to allow enough pressure to
be put on the gamnast. This An example
would mean & doing a run at 60-80%. to ensure pressures & put upon them.
to ensure pressures is put upon them.
the gymnast would also want to
be mindful y reversibility - to ensure
it does not occur. Revenibility is [6]
the agrets g exercise being reversed
ball to it original state the
gymnast would were aim to avoid

this from happening the gymnast
would ensure demands are met.
A gynast may decide to take
the Performance enhancing drug;
Beta Blocken. These as slow down
the bodys Heart Rate, a gymnast
may want this to calm their
retres Beta Blockurs also may
be useful when taking part in
precision activity such as beam.
Using performance enhancing drugs
may hold to optimise the Jaumnass
may help to optimise the gymnass performance training one increasing the chance of future sucess.
the change a future success

This response shows satisfactory knowledge and understanding of two principles of training. Overload is explained well using a practical example that is applied to the gymnast's training routine. Progression is described, but the example is not a suitable way of explaining progression in training. The point about avoiding reaching a plateau is a good one. Reversibility is not explained but there is some understanding of the principle. There is satisfactory knowledge of two benefits of beta blockers and these benefits are applied to the enhancement of gymnastic performance on the beam.

The answer could be improved by applying the principles of progression and reversibility to the gymnast's training programme. Furthermore, other benefits of beta blockers could have been evaluated, such as the pressure from a coach to win or a belief that they will not get caught.

A gymnast may also use progression in
their braining programs for exemple they
Could add another stages into their routine.
A gymnast could also use overload in their
training programme for example they coulded
& mane their routine go on for longer
A
A gymnast could also use sugger from reversibility
In their training programme for example, they
could 1159 their training programme for a
few weeks resulting in the gymnest having to
5tat 16 again
One reason a gymnast would use beta
blockers 13 to beep them focused for
example, their heart rate won't be as
high useaning they are gully concentrated.
This means it will be easier for the
gymnast to complete their contine without
161 (6)

Examiner commentary

This response shows a basic (Level 1) knowledge and understanding of principles of training. The explanations of overload of progression are too vague. An example is given which shows some understanding of overload. There is some evidence that the principle of reversibility is understood, but not the idea of avoiding its effects. The evaluation of beta blockers is satisfactory (Level 2). Two reasons for their use are given and the answer shows how these benefits of beta blockers will help to optimise the gymnast's performance in competition.

This response could be improved by explaining the meaning of each principle and then applying them specifically to a gymnast's training programme to improve the performer's fitness.

Gymnasts may use beta blockers within
their training programme to reduce
levels of anxiety. This will also
decrease their neart rate so will help
them remain coum.
specificity will allow a gymnast to
focus on relevant exercises because it
could be a move, such as a front
Walkover, which she wants to put in
her routine. For example, she could
Start off doing handstands until
sne reels comfortable enough to go
over into a front walkover furthamore
Overload will help a gymnast
FOCUS ON relevant exercises as Amene
gymnast will only be working an moves
which are relevent to her routine
so won't overload. They will also be
practising regularly so therefore won't
be effected by reversibility.

This is a Level 1 response. Two reasons for the use of beta blockers are given. Specificity is explained but no credit is given for this as it was not a requirement of the question. The candidate has not shown an understanding of the principle of overload, and progression has not been attempted. The response shows a basic understanding that reversibility should be avoided by practising regularly. This lifts the answer up from the bottom of Level 1. It does not sit well in the discriminators in the mark scheme because knowledge of beta blockers is better than principles of training.

The response could be improved by showing an understanding of each principle, applying that knowledge to a training programme suitable for a gymnast, and evaluating in greater depth the benefits of beta blockers to enhance performance in gymnastics.

The gymost must ouso measure
their spill they are performing meaning
No vertrembay wound and how for
they phoch +0 complete this sew. AISO
they phost +0 complete this skill also they what the gymnost need to make sure
It is achievable For example they
Showd Set extreme task that they know
they won't be able to complete in
the time Period. Next one 15 recorded,
the authore must make sure they are
peeping a log or deary of what day
they train on the routine for nowlong
now mony times and any feedback.
cast one is time, set a good of
how long they have up to complete
the Sky, for example a boundant
week, month, year. Beta blockers is a
Stenoid their harming performance
beering your heart rate out Slower
This means the gymnast work will
NOT tire as quickly.

This response has described the SMART principle and does not get any credit for this knowledge as the question does not ask for it. It is irrelevant. No knowledge of the principles of training has been shown, nor has any knowledge of training been applied to a training programme that would benefit a gymnast. One valid point has been made that beta blockers keep heart rate slower, which means the response is at the bottom of Level 1.

Component 02 Question 23c

(c)* Regular exercise and a balanced diet often results in physical and emotional benefits.
Using practical examples, describe the emotional benefits of participating in physical activity.
Explain how regular exercise and a balanced diet result in long-term benefits on the heart.

Exemplar 1 6 marks

_ Stress _ Endorphunen configurce _ Body Using practical examples, describe the emotional benefits of participating in physical activity.

(ess change the hyperrepring, SV, Remove hyperrepring, SV, Remove hyperrepring, SV, Remove hyperrepring, SV, Remove hyperrepring the benefits on the heart.—#RV kuhcipahng in phycical achilit can emohonally benefit responders as when electioning homonis called endorphines are released, which elevate mood An example of this is the performers happeness heing increased after completing a nin. Amother emohimal benefit includes stress relief from things such as work and school commitments. HOT example, a contact sport such as my by may help the performer to relieve smess during a match. and body image may also be uncreased through pain anathing in philswai activity on due to weight loss and the physical Denetus of parnerparing. An example of this is performers having increased confidence mittingn achierments in Sport such as at new perional hest unon moranno a shot pull. An example permy increased could be achieved

through unight loss from a spinning class at
the gym \$ see Addinonal space ->
Regular exercise can lead to long term ordaptations
and benefit in the heart such an eardiac
hypermophy Cardiac hypermophy means
the heart mirecle uncreases in she so the strength
of muscular contraction increases.
Due to muscular hypertrophy the state volume
of the heart uncreases as more blood is ejected
from the heart per boat. As the stoke volume
and muscle size, in the neart, increases the
resting hear rate of the athlete will decrease.
This init benefit the heart on & the cardiac
output is increased during exercise and less
stress will be placed on the heart.
A belanced dust also benefits the hear on
it decreases the not of high blood pressure
and commany heart disease. This is an less
fat mil build up within me blood vessles
in the hear creating resistance to flow.

This exemplar shows an answer from a candidate who has performed well overall in the rest of the paper.

The candidate scored 6 marks out of a possible 6 marks and was judged to be in Level 3 of the mark scheme.

The candidate has identified that there are two parts to the question by using their own annotation. They have also identified that 'practical examples must be used for the first part which is related to emotional health. This is good practice.

Four practical examples have been given for emotional benefits including 'running', 'spinning' athletics' and 'rugby'.

The candidate shows good knowledge and understanding (AO1) of emotional benefits of participation but does not develop this understanding.

In the second part of the answer the candidate has provided numerous AO1 responses which are then developed well (AO3). This section covers links between participation and diet, and participation and long-term effects on the heart.

The response is well written, with good spelling, use of technical terms and punctuation.

Eistly got is you play sport or do regular
bus restre per revol & no ti a sinonne
make you more conjudont for example if you
go to the gyme and lift the becuries ineight
you may jed proud of yourself. DUSO it
delpa you manage stess and and anxiet
as you get used to advenation for example
if you play boxing you get used to remes
as you do it constartly as you can deal with
it in life Also your are less likely to
get depresion as a chemical called setterour
In relocated so it reduces depression. Also For
errample playing golf may make you none
relaxed so you are loss depressed that you
are more socail for example is you play rugby
you have the serse of belonging to a team
so you are less artisonail as you speak
to more people. Also when flavoring sport endorphy
are released for example summing which
could make you happy Roquiar excourse
can help your heart our HOL is released
[6] Ventastats bad astroner hime
) 50 you have a less chave of
gaining CHO. Also you are less likely
to not managerate ut
Is get overweight if you have a

hallanced diet so you you also reduce the risk of drabter helping your heart.

Examiner commentary

This exemplar shows an answer from a candidate who has performed very well throughout the paper.

The candidate scored 5 marks out of a possible 6 marks and was judged to be in Level 3 (the top level) of the mark scheme.

The candidate has provided a wide range of valid points which cover AO1 in both sections of the question. Emotional benefits descriptions are developed well. Practical examples given for emotional benefits are appropriate and come from a number of different sports e.g. lifting weights at a gym, boxing, playing golf, playing rugby and swimming. This places the answer in Level 3.

AO3 areas are covered well by development of numerous, (AO1), statements across both parts of the answer. Spelling is generally good and the candidate has made good use of technical terms.

In order to gain full marks, the candidate needs to provide more links between participation and long term effects on the heart, for example through regular exercise hypertrophy of the heart takes place (AO1) which results in increased stroke volume (AO3) and a decrease in resting pulse rate (AO3).

Exemplar 3 4 marks

when you exercise you release endorphines, with which make you feel happier and healthier. An emotional benefit of exercise is that exercise decreases your Stress levels as you are able to focus your mind and caim yourself. Also, when exercise you will have improved confidence level as you will percieve yourself as having a better body image, as you will feel healthier. Another emotional benefit is that you will have a better body image and you will feel more proud of yourself after completing exercises. For example, a dancer that has a lot of stress due to poor confidence and body image can become more Confident after exercising A balanced diet to is matching energy input with energy output. Both a balanced diet and regular

exercise can improve result in long-term benefits of the neart as it will decrease the risk of developing. CHD, will as your neart will be healthier. Also, regular exercise will also cause hypertrophy of the heart to occur, as it will become much stronger and bigger if you eat a balanced diet and exercise 161 regularly.

Examiner commentary

This exemplar shows an answer from a candidate who performed well throughout the paper.

The candidate scored 4 marks out of a possible 6 marks and was judged to be in Level 2 of the mark scheme.

The candidate has shown good knowledge and understanding throughout the question, covering more than enough AO1 content. They only provide one example (AO2) when writing about 'a dancer having a lot of stress'.

As this is the only effective practical example and an attempt at an AO3 point has been made ('you feel proud of yourself after completing exercises'), with success this places this answer firmly at the top of Level 2 gaining 4 marks.

The answer is well written, with good spelling and use of some technical terms, therefore, to achieve 5 or 6 marks the candidate would need to provide 1 or 2 more practical examples (AO2) and develop some of their AO1 points. For example, they could develop their knowledge regarding hypertrophy of the heart by stating that this would result in a decrease in resting heart rate, or increase stroke volume/cardiac output. They could also develop their example of the dancer by stating that the dancer might exercise with others which not only makes them happy but would also decrease the feeling of loneliness (AO3).

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3 marks

After regular exercise you gain a better
mage of yourself which then boosts
self-esteeme.g. if you go to the gym and
lift neight, you'll gain muscle, making you
looks better. It'll also mean you gain
confidence.
Exercise that consists of cardiovascular
work will mean a the hypertrophy of the
heart along with a decreased resting heart
rate and blood pressure. Cardiac output win
also increase.

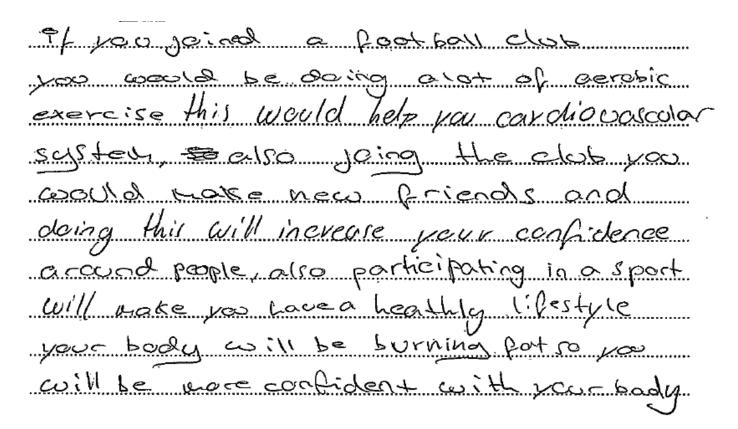
Examiner commentary

This exemplar shows an answer from a candidate who has generally scored well in the rest of the paper.

The candidate scored 3 marks out of a possible 6 marks and was judged to be in Level 2 of the mark scheme. The candidate immediately identifies the relationship between having a good self image (AO1) and increasing self esteem (AO1). They then link this to an appropriate practical example, going to a gym and lifting weights which results be increase muscle (AO2). The candidate then identifies that cardiovascular work will result in hypertrophy of the heart (AO1). They then develop this by stating that this results in a decreased resting pulse rate (AO2) and increased cardiac output (AO2).

To improve this answer, the candidate should provide more emotional benefits with examples and explain how a balanced diet could result in long-term benefits on the heart. For example, they could state that going to the gym and lifting a challenging weight might make them feel good about themselves (AO1), this might then give them a high opinion of themselves (AO3). Lifting weights also releases endorphins (AO1) which makes them feel happy when working with others (AO3). Having a balanced diet with the recommended amounts of protein will help build and repair cells in muscles and help maintain a healthy heart (AO3).

2 marks



Examiner commentary

This exemplar shows an answer from a candidate who has scored well on previous questions, but their answer is not specific enough when explaining benefits to the heart. They also lack development of some of the points they make regarding emotional benefits of participation.

The candidate scored 2 marks out of a possible 6 marks and was judged to be in Level 1 of the mark scheme. They have given their response using a practical example (AO2) which is asked for in the question. They provide knowledge and understanding (AO1) by identifying that playing football involves a lot of aerobic exercise which helps the cardiovascular system. This does not relate to a specific benefit on the heart itself but is a relevant example. They then link joining the football club to 'making new friends' (AO3) which results in an increase confidence around people (AO1). The candidate has also linked being participating in sport and burning fat which results in achieving a better self-image (AO1).

To improve their answer the candidate needs to explain how regular exercise has benefits on the heart itself and state what the benefits would be for example hypertrophy of the heart (AO1) along with stronger heart muscle contractions (AO1) resulting be increased cardiac output (AO2). They could also develop their point regarding being 'more confident with your body' by identifying that burning fat results in weight loss. This can make the person feel that they possess an image that others admire.

1 mark

Partaipating in physical activity can
help people to meet new people
and make new priends. This can
then help them to boost their
considence. Also, 14 they perform
well and teamate's of others
Say well done this can help
I partapants to feel better
about themselves. A balanced
diet is eating a variety
of dyferent pools. Thus has
long term effects on the
heart fuen as an increase
in the heart mass and an
increase in blood flow.
* and heart muscle

Examiner commentary

The candidate has shown knowledge and understanding by stating that 'by meeting new people and making new friends' there is an emotional benefit, a 'boost in confidence'.

They also show their knowledge and understanding through 'if they perform well and teammates or others say well done this can help performers to feel better about themselves'. Neither point has been developed, so neither gains credit for AO3.

The candidate has attempted to provide an explanation of how 'regular exercise and a balanced diet result in long-term benefits on the heart'. However, this is limited to how a balanced diet alone has long term effects on increase in heart (muscle) mass and blood flow, which is inaccurate. There is no mention of how regular exercise benefits the heart.

The candidate has not provided any practical examples (AO2) to illustrate their knowledge and understanding, which the question asks for, therefore their response is a Level 1 answer.

Overall, the candidate has provided two points that demonstrate their knowledge and understanding (AO1) both relating to emotional benefits, with no AO2 or AO3 content.

To improve this answer the candidate needs to develop their points e.g. 'Also, if they perform well, for example scoring a century in a cricket match would make them feel good and give them a higher level of self-efficacy because of the achievement.' They also need to state that the effects on the heart they have given examples for are a result of regular exercise and how a balanced diet affects the heart, for example vitamins can protect against heart disease.

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