

# Cambridge IGCSE™

PHYSICAL EDUCATION

Paper 1 Theory MARK SCHEME Maximum Mark: 100 0413/13 May/June 2020

Published

Students did not sit exam papers in the June 2020 series due to the Covid-19 global pandemic.

This mark scheme is published to support teachers and students and should be read together with the question paper. It shows the requirements of the exam. The answer column of the mark scheme shows the proposed basis on which Examiners would award marks for this exam. Where appropriate, this column also provides the most likely acceptable alternative responses expected from students. Examiners usually review the mark scheme after they have seen student responses and update the mark scheme if appropriate. In the June series, Examiners were unable to consider the acceptability of alternative responses, as there were no student responses to consider.

Mark schemes should usually be read together with the Principal Examiner Report for Teachers. However, because students did not sit exam papers, there is no Principal Examiner Report for Teachers for the June 2020 series.

Cambridge International will not enter into discussions about these mark schemes.

Cambridge International is publishing the mark schemes for the June 2020 series for most Cambridge IGCSE<sup>™</sup> and Cambridge International A & AS Level components, and some Cambridge O Level components.

#### **Generic Marking Principles**

These general marking principles must be applied by all examiners when marking candidate answers. They should be applied alongside the specific content of the mark scheme or generic level descriptors for a question. Each question paper and mark scheme will also comply with these marking principles.

GENERIC MARKING PRINCIPLE 1:

Marks must be awarded in line with:

- the specific content of the mark scheme or the generic level descriptors for the question
- the specific skills defined in the mark scheme or in the generic level descriptors for the question
- the standard of response required by a candidate as exemplified by the standardisation scripts.

GENERIC MARKING PRINCIPLE 2:

Marks awarded are always **whole marks** (not half marks, or other fractions).

**GENERIC MARKING PRINCIPLE 3:** 

Marks must be awarded **positively**:

- marks are awarded for correct/valid answers, as defined in the mark scheme. However, credit is given for valid answers which go beyond the scope of the syllabus and mark scheme, referring to your Team Leader as appropriate
- marks are awarded when candidates clearly demonstrate what they know and can do
- marks are not deducted for errors
- marks are not deducted for omissions
- answers should only be judged on the quality of spelling, punctuation and grammar when these features are specifically assessed by the question as indicated by the mark scheme. The meaning, however, should be unambiguous.

GENERIC MARKING PRINCIPLE 4:

Rules must be applied consistently e.g. in situations where candidates have not followed instructions or in the application of generic level descriptors.

#### GENERIC MARKING PRINCIPLE 5:

Marks should be awarded using the full range of marks defined in the mark scheme for the question (however; the use of the full mark range may be limited according to the quality of the candidate responses seen).

#### GENERIC MARKING PRINCIPLE 6:

Marks awarded are based solely on the requirements as defined in the mark scheme. Marks should not be awarded with grade thresholds or grade descriptors in mind.

#### Science-Specific Marking Principles

- 1 Examiners should consider the context and scientific use of any keywords when awarding marks. Although keywords may be present, marks should not be awarded if the keywords are used incorrectly.
- 2 The examiner should not choose between contradictory statements given in the same question part, and credit should not be awarded for any correct statement that is contradicted within the same question part. Wrong science that is irrelevant to the question should be ignored.
- 3 Although spellings do not have to be correct, spellings of syllabus terms must allow for clear and unambiguous separation from other syllabus terms with which they may be confused (e.g. ethane / ethene, glucagon / glycogen, refraction / reflection).
- 4 The error carried forward (ecf) principle should be applied, where appropriate. If an incorrect answer is subsequently used in a scientifically correct way, the candidate should be awarded these subsequent marking points. Further guidance will be included in the mark scheme where necessary and any exceptions to this general principle will be noted.

5	<u>'List rule' guidance</u> (see examples below)
	For questions that require <i>n</i> responses (e.g. State <b>two</b> reasons):
	<ul> <li>The response should be read as continuous prose, even when numbered answer spaces are provided</li> <li>Any response marked <i>ignore</i> in the mark scheme should not count towards <i>n</i></li> <li>Incorrect responses should not be awarded credit but will still count towards <i>n</i></li> <li>Read the entire response to check for any responses that contradict those that would otherwise be credited. Credit should <b>not</b> be awarded for any responses that are contradicted within the rest of the response. Where two responses contradict one another, this should be treated as a single incorrect response</li> <li>Non-contradictory responses after the first <i>n</i> responses may be ignored even if they include incorrect science.</li> </ul>
6	Calculation specific guidance
	Correct answers to calculations should be given full credit even if there is no working or incorrect working, <b>unless</b> the question states 'show your working'.
	For questions in which the number of significant figures required is not stated, credit should be awarded for correct answers when rounded by the examiner to the number of significant figures given in the mark scheme. This may not apply to measured values.
	For answers given in standard form, (e.g. $a \times 10^{n}$ ) in which the convention of restricting the value of the coefficient (a) to a value between 1 and 10 is not followed, credit may still be awarded if the answer can be converted to the answer given in the mark scheme.
	Unless a separate mark is given for a unit, a missing or incorrect unit will normally mean that the final calculation mark is not awarded. Exceptions to this general principle will be noted in the mark scheme.
7	Guidance for chemical equations
	Multiples / fractions of coefficients used in chemical equations are acceptable unless stated otherwise in the mark scheme.

State symbols given in an equation should be ignored unless asked for in the question or stated otherwise in the mark scheme.

Question	Answer	Marks
1	3 from: plasma; red blood cells; white blood cells; platelets;	3

Question	Answer	Marks
2(a)	No mark for naming the physical activity. 2 from: (swimming) a swimmer pushes off the wall when turning at the end of a length; (gymnastics) gymnast points toes during a floor exercise; (athletics) an athlete points his toes to land on the balls of the feet when running; (cycling) a cyclist pushing down on the peddles of a bike. accept other appropriate examples.	2
2(b)(i)	<ol> <li>mark for the position of resistance</li> <li>mark for all three components in correct position.</li> <li>resistance in the middle;</li> <li>all three components in the correct position: fulcrum – resistance – effort / effort – resistance – fulcrum;</li> </ol>	2
2(b)(ii)	second class lever;	1

Question	Answer	Marks
3	able to cope with stress; can control emotions; feeling good / having (good) self-esteem / confidence / be motivated;	3

Question	Answer	Marks
4(a)	max 2 marks for correctly naming components of fitness max 4 marks for justification justification for the gymnast <b>and</b> the runner for each component	6
	component: coordination; <i>justification:</i> gymnast needs coordinate the movement of the arms with the take-off to be able to extend the arms at the right time; runner needs arm coordinate arm and leg movements to be able to maintain balance whilst running; component: balance <i>justification:</i> gymnast needs to be in a balanced position on the box to be able to control the landing; runners need balance to reduce the energy needed to be able to maintain an efficient running position;	
	component muscular endurance; <i>justification:</i> gymnast will need to repeat muscular force when they have to vault again and achieve the same standard of performance; runner will repeat leg action throughout the race;	
	component flexibility; <i>justification:</i> gymnast needs flexibility at the shoulder to extend the arm and reach to the furthest point on the platform; runners need flexibility at the hip to achieve a long running stride; <i>accept other examples.</i>	

Question	Answer	Marks
4(b)	max 2 marks for naming tests	8
	max 3 marks for describing key features of each test	
	max 4 marks for each test	
	Balance – Stork Stand Test:	
	subject stands with hands on hips and raise one foot to place it on the inside of the standing leg;	
	timer stops when the standing foot moves or standing foot heel touches the floor or non -standing foot loses contact with knee	
	or a hand comes of the hip;	
	some variants have eyes closed (e.g. blind Standing Stork test);	
	the best time from 3 attempts is compared to normative data tables;	
	Coordination – Anderson Wall Toss Coordination Test	
	subject stand 2 metres from a plain wall with a tennis ball in their right hand;	
	ball is thrown underarm to rebound off the wall and is caught in the left hand /the ball is then thrown underarm with the left	
	hand to be caught by the right;	
	this is repeated as many times as possible;	
	the number of catches made in 30 seconds is compared to normative data tables;	
	Cardio vascular endurance – Multi-Stage Fitness Test / 12 Minute Cooper Run	
	Multi – Stage Fitness Test:	
	Subject runs in time with the bleeps on a CD / eq.,	
	20 metres / measured shuttles are performed,	
	any noor surface can be used, indoors of outdoors (must be lever), time between bleens is reduced as test progresses (bleens get closer together (subject has to run faster:	
	une between bleeps is reduced as test progresses / bleeps get closer together / subject has to run faster,	
	the level achieved and the number of shuttles performed within that level are recorded:	
	scores are compared to standardised pormative data:	
	12 Minute Cooper Run Test	
	subject runs / walks as far as possible:	
	test duration is 12 minutes:	
	a measured course is used e.g. with cones place at regular intervals to help identify the exact distance covered / measured	
	laps:	
	calculate the distance covered.	
	The distance covered is compared to normative data tables:	

Question	Answer	Marks
4(b)	Flexibility – Sit and Reach Test         subject warms up thoroughly before performing test and removes shoes;         subject sits with straight legs and feet flat against sit and reach box or a bench;         if a bench is used a ruler is placed with 15cm extended over the end of the bench and zero towards the subject;         subject reaches forward with both arms extended as far as possible along the box / ruler;         at full stretch the position must be controlled for the score to be recorded;         the best score from 3 attempts is compared to normative data tables;         Muscular endurance – Multi-Stage Abdominal Curl Conditioning Test         subject performs sit up in time with the bleeps on a CD / eq;:         arms are folded across the chest with elbows forward. Knees are bent. Sit up for elbow to touch the knees;         bleeps get progressively quicker each minute;         subject performs until they can no longer keep up with the bleeps or technique loses correct form;         the total number of sit ups is counted and compared to normative data tables.         Strength – 1 Rep Max Test         the maximum weight a subject can lift in one repetition is recorded;         a variety of exercise can be used (usually leg press or bench press);         subject perform suitil usbject cannot perform one repetition;         a rest of up to 3 minutes is allowed between lifts;         maximum weight lifted is divided by budy weight;         Hand Grip Dynamometer handle in the dominant h	

Question	Answer	Marks
4(b)	Reaction time – Ruler Drop Test         subject stands or sits with arms extended         an assistant holds a ruler vertically between the subject         ruler is aligned so that zero is level with the top of the subject's thumb.         without warning, the ruler is dropped and the subject catches it as quickly as possible         the distance the ruler fell is recorded in cm         the average distance dropped from 3 attempts is compared to normative data tables         Power – Vertical Jump Test         subject adjusts vertical jump board so that the lower edge touches fingertips when arms are extended overhead and body if         fully stretched with feet flat on the floor / if a vertical jump board is not available the subject stands sideways on to wall with         feet flat and extends arm nearest wall upwards to make with chalk held in fingers;         subject bends knees and jumps as high as possible;         marking the board / wall at the highest point using chalk or eq. method;         measure the difference between the two marks;         the best score from 3 attempts is recorded and compared to normative data tables.         Speed – 30-Meter Sprint Test         30 meters is marked out on a selected flat running surface;         a flying start is used;         subject sprints as fast as possible through the start and past the finishing line.         a stopwatch or timing gates can be used to record the time.         the best score from 3 attempts is compa	

Question	Answer	Marks
5	max 2 marks for naming factors max 2 marks for appropriate explanations linked to named factor. 2 from: factor: age; explanation: some sports have age restrictions to protect a person from injury / as a person gets older their level of fitness reduces which limits the type of sports that they can take part in / as people get older, they often take part in activities that have a greater social aspect; factor interests; explanation: people develop interests in a sport in a variety of ways such as through the media that makes certain activities fashionable / certain activities are shown more often / made too seem more exciting; factor: social circumstances; explanation: the cost of certain sports may prevent a performer from taking part / certain activities /sports clubs may still have a gender bias;	4
	factor: family influences; explanation: some families may (may not) encourage their children to take part in activities / if a family has a tradition in playing a certain sport / parents may act a sporting role model for their children; factor: peer influences; explanation: a person is likely to take part in activities that their friends are involved in / younger people are more influenced by their peers:	
	factor: facilities available / access; explanation: the facilities that are close to where a person lives are more likely to use them than travel to other facilities/ the sports that are on offer locally makes it easier to participate and allow younger people to be more independent in their participation; factor: area where you live / environment and climate; explanation: the geography / culture / tradition of a country or area will determine the activities available / in USA there are basketball courts in local areas that people can play at any time/ in some countries there are restrictions on female dress which make some activities difficult:	

Question	Answer	Marks
6(a)	(cognitive anxiety) the mental symptoms that a performer feels such as fear, worry and doubt / can occur if the performer is in a state of under or over arousal; (somatic anxiety) the physical signs/ symptoms of anxiety;	2
6(b)(i)	<i>max 1 mark for each suggestion</i> <i>2 from:</i> <i>e.g. football:</i> people watching / crowd – a larger crowd that usual watch the match / noise made by the crowd; media coverage: knowing that the media are reporting / showing the game on television; bright lights: playing a game under flood lights can create a different atmosphere at the game; importance of the game: playing in an important game (cup final); quality of opposition / fear of injury: playing against opponents who are unbeaten / have lost heavily to opponents before / physically intimidated by opponents; not being fit / training not being completed well / being injured / not fully fit: first game having been injured for a long period of time; fear of failure / fear of performing badly: concerned about losing their place in the team if the result is poor; some personalities types are more likely to feel anxiety: players may become anxious when a simple pass goes wrong; playing in an unusual surrounding: playing a match at a ground that have never visited before; unfamiliar conditions e.g. weather / playing surface: worrying about injury when playing on an artificial surface uncertainty: feeling they may not be able to achieve e.g. playing in a team for the first time and not knowing the ability of other members of the team; pressure: worrying about the outcome of certain situations – worrying about missing a penalty if you are regular penalty taker; too much focus on the outcome / result rather than performance: too much focus on winning the game; pressure from teammates / coaches /sponsors: coach trying to motivate the players by telling them the importance of winning the game.	2

Question	Answer	Marks
6(b)(ii)	<ul> <li>max 3 marks for each relaxation technique named max 3 marks for descriptions linked to named technique technique: mental rehearsal;</li> <li>example: taking a penalty in football / rugby / hockey a performer will run through the skills that will be required when striking the ball / imagine the power needed to strike the ball;</li> <li>technique: visualisation;</li> <li>example: taking a penalty in football / rugby / hockey a performer will visualise where to hit the ball to get the best outcome and score the penalty / performer can recall instances when they have taken a penalty previously and been successful;</li> <li>technique: deep breathing;</li> <li>example: when waiting to take a penalty in football / rugby / hockey a performer will pause and breathe deeply to lower the heart rate /lower the amount of adrenaline being released / allows a performer to block out external factors and concentrate on the breathing action;</li> <li>technique: positive self-talk;</li> <li>example: when waiting to take a penalty in football / rugby / hockey the performer can talk to themselves to give themselves a positive view of the outcome which helps motivation and self-confidence;</li> </ul>	6

Question	Answer	Marks
7(a)	1 mark for stating the type of respiration 1 mark for an appropriate equation. respiration: anaerobic; equation: glucose → lactic acid (+ energy);	2

Question		Answer		Marks
7(b)	1 mark for each description that demonstrates difference mark awarded when both energy systems are named in t	s in energy the descript	release. ion	3
	3 from: Runner A Sprint Hurdler		Runner B Long distance runners	
	converts glucose into energy without oxygen being present / anaerobic	AND	converts glucose into energy with oxygen being present / aerobic;	
	energy can only be produced for a short period of time	AND	energy can be produced over a long period of time;	
	lactic acid is produced	AND	lactic acid is not produced;	
	waste product is lactic acid	AND	waste products are water <b>AND</b> carbon dioxide;	
	results in muscles tiring / fatigue quickly / high intensity	AND	allows muscle to maintain contractions over a long period of time;	
	an oxygen debt is created	AND	an oxygen debt is not created;	
	produces energy quickly / high intensity	AND	Produces energy slowly / low intensity;	

Question	Answer	Marks
7(c)	1 mark for each situation related to the named games activity no mark for naming the activity.	2
	examples could include: football: situation 1: the player is involved in passing the ball and keeping possession of the ball in their own half(aerobic) the ball is passed forward and a player has to sprint to get to the ball before an opponent (anaerobic);	
	situation 2: a goalkeeper moves slowly forward to reduce the angle of an attacking player(aerobic) he then sprints forward to block the ball (anaerobic); basketball:	
	situation 1: a player takes a defensive position in a zone defence when the ball is on the opposite side of the court (aerobic) takes part in a fast break and runs at speed down the court(anaerobic); situation 2: a player positions themselves to box out defenders(aerobic) then jumps to rebound the ball at the highest point(anaerobic); tennis:	
	situation 1: when serving the player throws the ball into the air(aerobic) and brings the racket through with speed (anaerobic); situation 2: the player rallies from the back of the court (aerobic), then runs to the net to return a drop shot (anaerobic); cricket:	
	situation 1: a batsman steps towards the ball (aerobic) and strikes the ball to hit it for six with all -out effort (anaerobic); situation 2: a fielder picks the ball up(aerobic) and throws the ball to the wicket from the outfield(anaerobic); accept other examples	
	accept the reverse situation e.g. Football:: a player sprints to get the ball (anaerobic) then pauses to look for a team-mate before passing the ball (aerobic).	

Question	Answer	Marks
7(d)	1 mark for each description of a factor.	2
	2 from: Intensity of exercise: the harder a person exercises the longer the period of recovery; cool down: massage / ice baths /recovery aids / causes lactic acid to be removed quicker age: as people get older, they generally need a longer recovery time; sleep: the quantity and quality of sleep affect the body's ability to recover both physically and mentally; quality of equipment: such as running shoes / protective equipment can reduce impact on joints enabling less damage so a quicker recovery; genetics: some people are will naturally recover more quickly than others as a result of inherited characteristic from their parents; overtraining: if a performer has been overtraining, they will tire / fatigue more quickly / recover more slowly / more at risk of injury so takes longer to recover; environment: exercising in extreme conditions can result in longer recovery periods; diet: recovery will be slower if post exercise nutrition is not taken at the right time; hydration: recovery will be slowed if a performer becomes / stays dehydrated; lifestyle: taking drugs / smoking may slow down recovery; strength and fitness: the stronger muscles are the quicker they can absorb oxygen to allow lactic acid to be removed quicker; general health/ body weight: poor health being overweight increases recovery time; muscle groups exercised: major muscle groups need more time to recover time, lactic acid tolerance / level of lactic acid in muscles / if levels of lactic acid is removed slowly the performer will take longer to recover;	

Question	Answer	Marks
8(a)	2 from: verbal; manual; mechanical;	2

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Question	Answer	Marks
8(b)	no mark for naming a physical activity 2 from: (e.g. badminton) placing a marker on the court to indicate where a serve should be aimed for; coach give a demonstration of a smash; (e.g. basketball) place markers on the ground to identify foot placement when learning to do a lay- up; use of video replays / slow motion: to allow performers to look at their performance with an example of a skill related to the physical activity accept other examples appropriate to named activity	2

Question	Answer	Marks
9(a)	no mark for naming the fitter performer – Performer B. 3 from: performer B has a lower resting heart rate / heart is stronger so can achieve the same results with less effort; performer B's heart rate increases at a slower rate / the supply of blood to the muscles is greater to allow oxygen supply to slow the increase in lactic acid; performer B has a lower working heart rate/ able to meet the oxygen demands of muscles easier as stroke volume is greater; performer B has a quicker recovery period – the athlete will have a lower oxygen debt so can recover quickly compared to performer A accept reverse points	3
9(b)(i)	cardiovascular endurance / stamina;	1

Question	Answer	Marks
9(b)(ii)	max 3 marks for each named factor max 3 marks for each description appropriate to the named factor.	6
	description: oxygen up take is at its strongest in younger people and reduces with age / the older you get the lower VO <sub>2</sub> max;	
	description: the values of VO <sub>2</sub> are typically higher in males than females / generally females have a lower VO <sub>2</sub> max than males due to lower stroke volume;	
	factor: genetics; description: some people's genes enable them to use oxygen more efficiently / the type of muscle fibres you have and the size of your heart are partly dependent on the inherited characteristics;	
	factor: lifestyle; description: smoking / a sedentary lifestyle / drug use may prevent $VO_2$ max improving / result in a lower $VO_2$	
	factor: training; description: training focuses on cardiovascular activities such as long-distance running / swimming / cycling will increase VO2max;	
9(c)	adrenalin is produced / released into the blood; breathing rate increases / more oxygen enters the lungs; increase in tidal volume; minute ventilation increases; body temperature increases / muscles become warmer; sweating; blood vessels enlarge / become closer to the skin to release heat / vasodilation / redistribution of blood / red skin; fatigue / feeling tired; suffer from nausea / feeling light headed / feeling unwell; more carbon dioxide is produced; lactic acid is produced; increase in oxygen supply to muscles; increased blood pressure;	3

Question	Answer	Marks
9(d)	pay off oxygen debt; removes lactic acid (from muscles); allows heart rate to stay high / reduces <b>gradually</b> ; gentle stretching reduces muscle soreness and stiffness later; body temperature stays high / reduces <b>gradually</b> ; breathing rate stays high / reduces <b>gradually</b> ; reduces the risk of injury; gives the performer time to reflect; gives the opportunity to calm down, allows a performer to maintain high rates of aerobic respiration to aid recovery and return the body to its normal state / use of aerobic system to provide energy for recovery processes; prevents blood pooling in muscles; restores glycogen	3

Question	Answer	Marks
10(a)	<i>2 from:</i> involves periods of intense exercise; this is followed by rest periods / length of rest periods can be changed to suit the performer; allows time to remove lactic acid and CO <sub>2</sub> to be removed; can provide the same benefits of other types on training in less time;	2
10(b)	<i>max 3 marks for explanations:</i> combines aerobic and anaerobic exercise which reflects the demands of games; less time needs to be spent on fitness training so more time can be spent on developing skills; can be adapted for different activities and fitness levels; specialist equipment not required; can provide a significant reduction in body fat;	3

Question	Answer	Marks
10(c)	2 from: often tired / fatigued; persistent muscle soreness; elevated resting heart rate; mood swings / irritable / depression / mental breakdown; difficult to sleep (despite being tired); loss of appetite; level of performance reduces despite working hard / reversibility occurs; susceptible to infections; increase incidents of minor injuries / overuse injuries (accept examples); burnout;	2

Question	Answer	Marks
11(a)	<i>max 3 marks for suggestions relating to sailing</i> changes in the weather conditions; changes in the water conditions; having the correct equipment / condition of equipment; numbers of safety boats available / availability of first aid equipment / first aiders; ability of performers; the possibility of being hit by equipment in the boat; small space to move around the boat; falling into the water; behaviour of competitors; rules of the competition / direction/ movement of the boats; <i>accept other factors</i>	3
11(b)	<i>max 1 mark for description.</i> <i>max 1 mark for example of risk.</i> description: an individual's subjective or personal judgement about the dangers of an activity; <i>(accept alternative wording)</i> example: drowning if the boat capsizes despite wearing a life preserver; <i>accept other examples</i>	2

Question	Answer	Marks
11(c)	<pre>max 1 mark for a named injury max 1 mark for an appropriate treatment 1 from: winding; loosen clothing / sit in a crouched position / keep calm / take deep slow breathes; simple cuts or grazes; clean / compress wound to reduce blood loss / elevate limb when possible to reduce blood flow to wound; blisters; cover the blister with a (blister)plaster or a gauze pad or dressing / don't pierce the bubble / in the case of a burn do not remove dead skin; bruises; ice area to slow blood flow to wound and reduce swelling; muscle strains; rest / stop the performer from continuing to play / ice area to reduce swelling / elevate limb to slow swelling; accept other minor injuries and appropriate treatments</pre>	2

Question	Answer	Marks
12	max 3 marks for reasons for a warm up to raise the body temperature; to raise heart rate; to increase blood flow (oxygen supply) to the muscles; to stretch the muscles and get them ready for action; to gets joints moving and increase the range of motion; to help avoid injuries / helps prevent sprains and strains; gives practice in skills and techniques to be used in the session / game;	3

Question	Answer	Marks
13(a)	1 mark for naming the type of activity 1 mark for a reason activity: endurance activities; accept an example of an endurance activity e.g. long distance running. 1 from: increase in the number of red blood cells allows a performer to transport more oxygen to working muscles which allows them	2
13(b)	to work for longer / increases the oxygen carrying capacity of a performer which improves cardiovascular endurance; max 2 marks for description of disadvantages.: training at altitude places more stress on the body; can lead to overtraining; can have a negative effect on the immune system; there can be a loss of body mass; some people experience dizziness and nausea (altitude sickness); disruption to family life; cost of travelling to altitude; if suffering from jet lag it may affect training after arrival at altitude; benefit of altitude training short term;	2

Question	Answer	Marks
14(a)	Max 4 marks for suggestions related: the benefits for women's football increase in media exposure makes people more aware of the sport being played; more money comes into the sport to improve facilities, equipment etc; creates role models for younger performers to identify with; sponsors more inclined to support the team so greater links to high profile companies; as more money comes into the sport more coaches / higher profile coaches improve standards of play; increase in young players results in greater depth and quality in the sport; as more people want to watch the games live bigger and better grounds / facilities are made available; <i>accept other benefits</i>	4

Question	Answer	Marks
14(b)	<i>max 2 max marks for disadvantages:</i> unable to train full time so may have more limited fitness / skills; if they have to work, they may be tired when they have training time; not always able to meet for training camps; can only work in a job that allows them time to train or play so it limits the type of work available; not always able to play in international matches due to time limitations / not always available to play due to work commitments; the player may be reliant on sponsorship so dependent on the success of the team; <i>accept other examples</i>	2

Question	Answer	Marks
15(a)	1 mark for each suggestion made. examples must relate to a sprinter. general description of the SMARTER targets should not be given credit. examples could include. measurable: the sprinters should have training times and competition times recorded to be able to compare the progress being made; realistic: set a target that is achievable, if the performer has a time of 14 second then a new target of 12 seconds would be inappropriate but a target of 13.5 seconds may be more realistic; time-phased: the completion of the target time may be achieved by the end of the athletic season as the athletics season is generally quite short;	3
15(b)(i)	fast-twitch (muscle fibre);	1
15(b)(ii)	1 from: produces a large amount of force / lower fatigue tolerance / tire quickly /good for strength and power / contract quickly; the description must match the muscle identified in <b>(b)(i)</b> regardless of <b>(b)(i)</b> being correct.	1