

ASSESSMENT and QUALIFICATIONS ALLIANCE

Mark scheme June 2003

GCSE

Physical Education B 3587 (Short Course)

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A1

1						
	(a) one such as:High jump					
		•	 Hurdles 			
			Basketball Volleyball			
			any others	(1 mark)		
	(b)	(i)	one such as swimming, gymnastics, dance, diving, climbing, field event throws, golf, tennis, squash, weight lifting.	(1 mark)		
		(ii)	one such as swimming, gymnastics, hurdling, field event jumps, dance, tramp diving, martial arts, climbing, skating, weight lifting.	olining, <i>(1 mark)</i>		
			qualification needed in other activities (e.g. team games) where positional der require suppleness	nands		
	(c)	(i)	a source of, or a supply, of <u>stored</u> energy accept <u>stored</u> carbohydrate (starch or sugar)	(1 mark)		
		(ii)	in the muscles in the liver	(2 marks)		
	(d)	(i)	any two from: heat			
			 lactic acid 			
			• water	(2 marks)		
		(ii)	by sweating			
			by breathing/respiration			
			by urinating/excreting	(2 marks)		
	(e)	stro	ke volume is the amount of blood leaving the heart with every beat.	(1 mark)		
	A higher stroke volume will improve performance by: (1 mark)					
	• lowering the resting heart rate;					
		•	increasing cardiac output; increasing the capacity to carry oxygen in the blood;			
		•	allowing more 0_2 to be transferred to the muscles;			
		•	allowing more carbon dioxide to be transferred from the muscles;			
		•	helping reduce build-up of lactic acid; increasing the capacity for aerobic production of energy;			
		•	making it easier to cope with exertion;			
		•	improving stamina-based performance.	(2 1 .)		
Generally the opposite if SV is low. (3)				(3 marks)		

A2

- (a) **one** from:
 - coach;
 - instructor;
 - leader;
 - choreographer;
 - trainer;
 - parent;

accept physiologist/psychologist/dietician.

(b) two such as:

- promote sport
- organise fixtures;
- organise competitions;
- organise officials;
- organise meetings;

- compile records;
- arrange venues;
- manage finances.
- accept examples of secretarial work for 1 mark.

(2 marks)

(3 marks)

(1 mark)

- (c) three such as:
 - for the challenge/competition;
 - for the thrill;
 - for enjoyment;
 - as a hobby;
 - for the friendship;
 - for the socialising/being part of a team
 - to broaden education.
- (d) schools can promote sport and physical activity by:
 - raising awareness/promoting value
 - allocating more than minimum curriculum time to PE;
 - delivering enjoyable lessons;
 - offering a range of accreditation;
 - providing a range of extra-curricular activities;
 - extending facilities to community use;
 - adding additional facilities through enterprise;

- providing generous finance;
- involving lots of staff and visiting coaches;
- providing role models;
- providing a variety of internal and external competition;
- celebrating participation and success of students;
- giving sport a high profile in publicising and marketing features.

(4 marks)

- (e) participation costs money the more you have, the easier it may be to pay to play in terms of:
 - kit;
 - transport/accommodation;
 - equipment,
 - coaching;

- fees;
- facility hire;
- insurance;
- subscriptions.

Having more money may mean more free time, therefore greater opportunities for leisure pursuits (i.e. sport)

There are discount schemes available for certain groups (e.g. unemployed)

If you do not have the funds, participation may be restricted, but some activities such as jogging can be undertaken for little cost. (5 marks)

B1

- (a) The skeletal and muscular systems work together by:
- the arrangement of bones creating joints, about which movement is possible;
- the structure and shape of a joint determining the type and range of movement possible; examples linking correct type of joint with the correct type of movement:
- bones are held together at joints by ligaments
- ligaments provide stability and limits to movement
- the skeleton providing a framework for the attachment of muscles;
- the muscles being attached to the bones, across a joint, by tendons;
- the structure of a muscle allowing it to increase and decrease in size and length;
- the muscles contracting and relaxing (or shortening and lengthening)
- the muscles pulling, not pushing
- muscles working in (antagonistic) pairs: role of protagonist + example role of antagonist + example
- the contribution of muscle fibre causing the tendon of insertion to move towards the tendon of origin;
- the pull of the tendon causing the angular movement of one bone towards another;
- the creating of levers which in turn determine the effect of movement;
- the speed and force of muscle contraction determining the speed and extent of movement;
- the role of fast and slow muscle fibres.
- (b) Common skeletal and muscular injuries occur by:
 - accidental or deliberate contact with other bodies;
 - accidental or deliberate contact with surfaces;
 - accidental failure of equipment;
 - deliberately misbehaving/disobeying the rules;
 - accident due to over-extending the body;
 - accident due to adopting abnormal body position;
 - accident due to incorrect technique;
 - incorrect preparation (e.g. warm-up/fitness conditioning);
 - incorrect recovery (e.g. cool-down);
 - overuse due to repeatedly stressing parts of the body.

Relevant examples, which must relate to how they occur, might include:

- cracks or complete fractures of bones;
- stress fractures;
- shin splints;
- partial or complete dislocation of joints;
- sprains of ligaments;
- tears of muscle fibres;
- internal bleeding (bruises)
- tears/ruptures of tendons;
- inflammation of a tendon;
- tears of cartilage;
- bursting of bursae (swelling) at a joint.

NB Both parts of the question must be answered to gain full marks.

(15 marks)



B2

- (a) Sportsmanship is:
 - playing to the rules;
 - being safe;
 - playing in the spirit of friendly rivalry/playing fair;
 - following a code of good conduct;
 - doing one's best;
 - showing respect to opponents;
 - showing respect to officials;
 - showing respect to spectators;
 - accepting decisions/not fussing/getting on with it;
 - accepting the result;
 - following sport etiquette;
 - giving advice and encouragement to new, or young, or inexperienced players.

examples

- shaking hands at the beginning/end of a match;
- giving three cheers;
- collecting a dead ball for the opponent;
- stopping a game in the event of an injury;
- acknowledging good skill by opponent;
- owning up to errors;
- swapping shirts/exchanging pennants.

examples can also be given from what a good sports person does not do, such as

- arguing/dissent/backchat;
- spitting/swearing;
- engaging in aspects of gamesmanship such as time-wasting and delaying play.
- engaging in aspects of gamesmanship such as teasing/tormenting/angering/winding up opponents;
- engaging in aspects of deceit.
- (b) Different examples of cheating, from a variety of sports, include:
 - handling the ball and claiming a goal in football (Maradona);
 - use of the head in boxing/the foot in hockey;
 - tampering with the equipment (ball in cricket)(foil/vest in fencing)(gloves in boxing);
 - improper equipment (too many clubs) (wrong sized studs) (over-sized racket);
 - throwing rather than bowling in cricket;
 - not taking a free move from the correct place (free kick in football)(lost ball in golf);
 - intimidating tactics (bodyline in cricket)(Prost & Senna in Formula 1);
 - bribing other players/officials(football & cricket)/match fixing/illegal betting;
 - fielding unregistered players/ over-aged players in junior sport;
 - drug taking (athletics & weight-lifting);
 - doping horses;
 - blood doping in endurance athletics.

A sport may be used more than once, but not exclusively.

NB Both parts of the question must be answered to gain full marks.

(15 marks)

MARKING CRITERIA FOR QUALITY OF WRITTEN COMMUNICATION

High Performance	Candidates spell, punctuate and use the rules of grammar with almost faultless accuracy, deploying a range of grammatical constructions; they use a wide range of specialist terms adeptly and with precision.	2 marks
Threshold Performance	Candidates spell, punctuate and use the rules of grammar with reasonable accuracy; they use a limited range of specialist terms appropriately.	1 mark
Below Threshold Performance		0 marks