MARK SCHEME for the October/November 2009 question paper

for the guidance of teachers

0413 PHYSICAL EDUCATION

0413/01

Paper 1 (Theory), maximum raw mark 80

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

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Page 2	Mark Scheme: Teachers' version	Syllabus	Paper
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Question	Section A	Part mark
1	Give one definition of the term Social Well-being.	
	 Have essential human needs, food, clothing and shelter Have friendship and support Have some value in society Able to mix with others 	[1]
2	Apart from providing energy name another reason why the body needs nutrients.	
	Enables the body to repair itselfGrowth	[1]
3	Most drugs can harm a performer in some way name one socially accepted drug.	
	 Alcohol Tobacco Caffeine Prescription drugs, credit given for naming a drug 	[1]
4	Describe one way that unemployment can reduce the level of participation in physical activity.	
	 Lack of motivation Lack of money Lack of available transport 	[1]
5	Describe one main bone that helps in the production of blood.	
	 Femur Ribs Humerus 	[1]
6	Describe two forms of extrinsic motivation.	
	 Money Medals / trophies Publicity Fame and publicity The above answers must have a a description i.e. money through prize money etc. just naming a type of motivation will not be enough for a mark. 	[2]
7	Describe two factors that could encourage older people to participate in physical activities.	
	 Additional time Improve social aspects of life Health factors 	[2]

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8		e are fewer female professional teams compare s. Give two reasons why this is the case.	ed to those for	
	• L	_ack of sponsorship		
		_ack of media coverage		
		Poor attendance at matches / events so little money is	-	
		nsufficient player base in certain sports to suppor structure	t a professional	
		_ack of opportunity / structure in certain sports		
		Lack of general interest in female sports		[2]
9	Describe two benefits, other than helping to prevent injury that can be gained from a warm up.			
	• •	Helps prepare you mentally		
		ncreases heart and blood flow		
		ncreases muscle flexibility		
	• L	Loosens joints		[2]
10		sing is an injury commonly associated with conta eant by the term bruising?	ct sports. What	
	• E	Blood is leaking from damaged blood vessels under th	e skin	
	• 6	Blood is trapped under the skin		[1]
11	Give	one sign or symptom of bruising.		
	• L	₋ocalised pain		
		Swelling		
	• 5	Skin discolours – blue, black and yellow		[1]
12		cribe two ways in which a sports centre o cipation.	can encourage	
		Answers can describe how groups with disabiliti different sports / building	es can access	
		Community groups can access traditional sports		
		Relaxation of rules to allow access to activities where cultural issues	e there might be	
		Specific times allocated to certain groups		
		Nomen only sessions which maybe the only way that	certain religious	
	-	groups can access public facilities		
		Advertising / making people aware of classes activities	;	
		Reduction in admission costs for certain groups Liaison with schools		
		Provide coaches and coaching at a variety of levels		
	• (Child care facilities		
		Provide opportunities to watch top class sports	to encourage	
		participation Special events		[2]
	-			[2]

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13		scribe three ways that schools help to promote ongst its students.	e participation	
	• • • • • •	Compulsory PE lessons Offer extra curricular activities School based clubs Examination courses Links with local clubs Dual use facilities Use of local facilities in the community Use of outside speakers / visiting coaches etc. Advertise /publicise activities on notice boards School sports bulletin / newsletter		[3]

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Question	Unit B1 – Factors affecting Pe	erformance	Part mark
(a)	What is meant by the term a d	Irug?	
	 A drug is any chemical su body works 	bstance that affects the way in which your	
	 Drugs affect sports perform 	ance in some way	[1]
(b)	Describe two reasons why programme.	rest is an important part of a training	
	 Allows muscles to recover Allows stiffness and sorene Glycogen stores in the replenished during rest Allows the performer to recover 	ess to clear liver become depleted and need to be	[2]
(c)	When taking part in exercise How does this improve perfo	regularly the heart will become stronger. mance?	
	oxygen delivery to the mus	-	[2]
(d) (i)	Complete the table below voluntary muscles.	which describes the actions of named	
	Voluntary Muscles Main a	iction	
	Deltoid Raise the sh	arm forward, backward and sideways at oulder	
	Tricep • St	raightens the arm at the elbow	
		raightens the ankle joint so you can and on your tip toe	[2]
(ii)	 importance. Arteries – walls of the arty of Stomach walls – contract to Bladders – allows moveme Saliva glands – helps diges 		
		uscle but will need a detailed description for	[3]

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and	body has three different types of joints <i>Synovial Fibrous</i> Describe one way that each type of jormer.		
•	Synovial – freely movable allows limb movement i planes i.e. a hurdler would need to be able to abduct a hip to get over the hurdle. Cartiliginous joints – slightly movable allows sm movement i.e. intercostal cartilage which allows move allowing the expansion of the lungs, when running capacity increases. Fibrous joints – immovable allows no movement bet i.e. the skull when heading a ball in football – the joi shape and acts as a shock absorber between the fi skull.	nd extend at the all amounts of ment of the ribs and the chest ween flat bones nt maintains the	[3]
(f) (i) The	diagram below is the Information Processing mode	<u>ə</u> l.	
	It do the letters A and B represent in the diagram.		
	A Decision Making B Output		[2]
(ii) Dese	cribe why feedback is important		
•	Identifies strengths so that skills can be built on Identify weaknesses so that they can be worked on See if additional training or practice is needed Set goals for improvement Stay motivated Learning takes place when there is feedback		[3]
(iii) Give	e two principles that need to be applied when a d back to a performer.	coach is giving	
•	Feedback must be given as soon as possible after the It should be clear and to the point so that you know v be constructive You must have enough time to think it over before the The method of providing feedback must be app understanding of the performer	what to do next / next attempt propriate to the	
	Feedback must use either Knowledge of Performanc of Results	e or knowleage	[2]
			[Total 20]

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Question	Unit 2 – Health, Sa	fety and Training	Part mark
(a)	Explain how inapp	propriate clothing can contribute to causing injuries.	
	 Inappropriate f outdoor footwe 	ootwear can cause slipping or too much grip, indoor / ar	
	warm up; cloth prevent hypothNot wearing same	need to be warm as protection from the cold to aid a ing may be needed for protection against the cold and ermia when taking part in outdoor activities afety clothing can cause injury – safety helmet when	
	•	ig etc. s can cause you to trip to tear in contact sports – not wearing a rugby shirt can	
	-	to be exposed when rucking etc. occurs protect from friction burns	[1]
(b)		a person's ability to perform in sports. hat can cause obesity.	
	Eating too mucLack of exercis	•	
	Lack of balance	e in the diet	[2]
(c)	Complete the tak identified.	ble below by giving the description of the term	
	term	Description	
	Cardiac Output	Cardiac output is the volume of blood pumped from the left ventricle each minute	
	Stroke Volume	The volume of blood pumped from the left ventricle each heart beat	
	Heart Rate	The number of beats per minute	[2]
(d) (i)	Reversibility is a p	principle of training.	
	Explain what is me	eant by reversibility.	
		e your fitness ng so muscles shrink re not used will atrophy	[1]
(ii)	When could revers	sibility occur?	
	Candidates need to part	o describe the reasons why rather than just stop taking	
	 If the performer If the performer 	r becomes ill r becomes injured	
	Reducing fitnes	s training to spend more time on developing technique s bored with training and stop	[1]

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(iii)	• () • () • () • () • () • () • ()	ose one of the other principles of training and exp d in a weight training programme. Overload – in the training programme there must to resistance – the weight used is increased Increase the number of repetitions The number of sets Increase the frequency of sessions Intensity of sessions Reduction of rest periods Specificity Identify the muscle groups needed for training Recognise the type of training that needs to be underta What additional training is needed? – the weight lifter flexibility training alongside the strength training Progression Exercises need to be gradually built up to avoid injury	be an increased	
(e) (i)	Expl	The weight training needs to be planned over time Strength training would start by being very general ar specific ain the benefits of being involved in a Fa gramme.		[2]
(ii)	• () •) • • • • () • () • () • () • ()	Good for training in sports that require a change of have sprint elements in it You can change the mix of fast bits and slow work to s Allows both the aerobic and anaerobic systems to be u Suitable for a variety of sports In the early stages of training the less active periods help recovery during training The training can be interesting as the activity as well change Can have little cost Can be adapted to any environment ain how you would use the overload principle in F aprove performance.	uit your sport used s of training can as the pace can	[3]
	• : • [Increasing time / reduce less active periods Speed Difficulty of terrain Made more interesting / challenging		[1]

Page 9	Mark Scheme: Teachers' version	Syllabus	Paper
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risk Des	en organising a multi sports activity there is a nee assessment. cribe one task that needs to be carried out wher essment.	-	
• • •	Visiting the sites for the activity Check the equipment being used Check the areas are safe for equipment to be moved Ensure any signs are visible Ensure that those needing to lift equipment kn procedure	ow the correct	
	All equipment in the area not being used is correctly st	ored away	[1]
1.	 cribe one potential hazard that may occur in each ings and explain how you would reduce the risk. swimming pool wet surfaces around the pool area wet surfaces in the changing areas diving area used for swimming equipment used as aid should be stored or used un swimmers swimming out of their depth 	-	
	 gymnasium / sports hall gym equipment not stored correctly surfaces and walls should not have objects projecting floor dirty which makes it slippery type of equipment being used / types of balls etc. 	ng from them	
3.	 playing field long grass / pitted uneven surface frost, mud etc. litter, glass, rubbish on the ground equipment such as goalposts need to be secure 		
	action must relate to the hazard, 1 mark for identifying ark an appropriate action- the action must relate to the		[6]
			[Total: 20]

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Question	Unit 3 Reasons and opportunities for participation in physical activity	Part mark
(a)	Name an activity and describe how it has been adapted to enable sports performer with a disability to take part.	
	An example of how any sport has been adapted to allow any disability full participation	
	e.g. Basketball – wheelchair basketball football – use of a bell in the ball for partially sighted bowling – ramps for the bowl to be delivered	
	Skiing – wide ski with a seat	[1]
(b)	Name two disadvantages that the increase in media coverage can have on the manager of a professional sports team?	
	Constant attention	
	 If the team does poorly decisions are put under scrutiny Media often influence the selection of teams 	
	 Media intrusion into private life Media try to sensationalise events at the club 	[2]
		[2]
(c)	What would be the benefits of attending an after school activity for a young person.	
	• Social benefits - joining other people in clubs helps develop social	
	 skills, improve self esteem and confidence, enjoyment Development of skills – increase the level of participation, provide 	
	opportunities at club, area, county or national level, improve skills, take opportunities to participate in new activities, gain additional skills for courses such as Duke of Edinburgh, Sports Leaders, Governing body	
	 awards Physical benefits – improve physical fitness and health 	
	• Support participants to participate after they leave school by using	
	facilities outside schoolRelieves stress	[3]
(d) (i)	Local clubs are often run by volunteers.	
	Why do local clubs use volunteers?	
	 Local clubs cannot afford to pay officials Volunteers will already be part of the club so have a commitment to 	
	the club	[1]

			Paper
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(ii) D	escribe two roles that are needed to run a club.		
g • • • • •	 andidates need to describe the role, if it is just name Secretary – arranges meetings, keeps minute communication between the club members and the Treasurer – looks after the clubs finances and accounts Chairperson – the top club official and would represent and chairs the club meetings Fixtures / membership Secretary – responsible fixtures with other clubs and organising membership people who belong to the club Coach – coaches teams, club sessions etc. Image the function of the second be annual fees to just for example to book a badminton court Applying for grants from either, local authorities sponsorship – at a local level companies may	es, responsible for club committee manages its bank present the clubs at for arranging club ip arrangements for Describe two ways in the club or to pay s, lottery grants or ving club facilities.	[2]
•	teams etc. Fund raising events at the club – dances, barbecu	es etc.	
	nswers relating to ticket sales, merchandising, televis ot relate to local clubs and should not be given credit.	ion coverage etc do	[2]
Ň	ome countries excel in certain sports for example /hy would it be difficult to develop different ountries? Lack of coaches in that particular sport Limited facilities available for that sport – lack prevent some counties from developing many inter Funding used for the sports that the country excels Difficult to get media coverage as they will conce that the country has success The climate of the country may not support the s skiing in tropical countries Some sports are not part of the culture / traditio there is limited interest – Sumo wrestling has limited Japan If certain sports are not taught in school th understanding Geographical – some countries may be isolated so for participation – Argentina has difficulties playing in the region as it is the only country that plays in th Science / medical support – as the sport is not there will be little scientific and medical support maticipation for the sport is not there will be little scientific and medical support maticipation for the sport is not there will be little scientific and medical support maticipation for the sport is not there will be little scientific and medical support maticipation for the sport is not there will be little scientific and medical support maticipation for the sport is not there will be little scientific and medical support maticipation for the sport is not there will be little scientific and medical support maticipation for the sport is not the sport	of swimming pools national swimmers in ntrate on the sports port being played – n of that country so ed interest outside of ere will be limited o it becomes difficult g international rugby nat region seen as significant	