CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

MARK SCHEME for the October/November 2012 series

0413 PHYSICAL EDUCATION

0413/11

Paper 1, 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 should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the October/November 2012 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.



	Pa	age 2	Mark SchemeSyllabuIGCSE – October/November 20120413							Ρ	aper			
				IGCSE -	- Octob	er/Nov	ember	2012		0413	5		11	
						Se	ction A							
1	•	Joins one Supports			ər									[1]
2	•	Protein; efficiently	-	h athlete	es need t	to build	muscle	, protein i	is the	nutrient	which d	loes tł	nis mos	st [1]
3	•	The rate	at whic	h a perfo	ormer is	able to	perform	n a mover	ment c	or cover a	a distar	nce		[1]
4	• • •	Swelling Lack of n Inability t Deformity	noveme to use v y	vrist										
	•	Possible	bruisin]										[1]
5	•	It helps ti Keeps bo	-			fe level								[1]
6	• • • •	To look g To enhar Improve Improve Meet a p Help mai	nce you physica perform hysical	l fitness ance challeng	le									[2]
7	•	Bicep rel Triceps c		5										[2]
8	•	All body Free from Free from	n injury		ell									
	•	Able to c			ay tasks	with ea	ise							[2]
9	•			•	-	•		ontinue pe orse / ad		•				[2]
10	• • •	-	may be are not	cautione allowed f	ed or ser to strike	nt off for one an	r a brea	rom behir ch of the						[2]

Р	age 3	Mark Scheme	Syllabus	Paper				
		IGCSE – October/November 2012 0413						
11 • • •	Fat acts Extra we	generally have a higher proportion of body fat as insulation and keeps body warm ight is more difficult to carry, slows you down, res d body fat places additional strain on the heart, jo		[2]				
12 • • •	Interests	uction in physical / skill related fitness as people or rcumstances; child care / finance / family / friends						

- Facilities available; local accessible access to facilities needed
- Location; where people live may influence decision to take part in activity. Coastal / sailing. High mountains / skiing [3]

[Total: 20]

	ige 4	Mark Scheme	Syllabus	Paper
		IGCSE – October/November 2012	0413	11
		Section B		
actors	s affec	ting performance		
81 (a)	• C • V	The driving force that makes you do what you do Desire / someone can give you the desire to do so Wish to succeed sic / extrinsic motivation not given credit	omething	[
(b)	• C • N White • F	blood cells. Carry O2 Muscles need O2 in order to provide energy for m e blood cells. Fight infection Enables performer to remain healthy, free from co elets.		e to perform
	• +	Help blood clot ncrease recovery time		[
(c)	 B E F G A A T 	A balanced diet is needed in order to provide the Be wary of their environment, free from pollution of Ensure enough sleep and sufficient rest to allow to Regular exercise, at least three times a week for a Good personal hygiene to help avoid infections, il Avoid harmful substances such as tobacco (smoke A positive mental attitude Time for relaxation Wearing the correct clothing to keep the body war	caused by various emis the body to recover at least 20 minutes reco liness and diseases king), alcohol and drugs	ommendation
(d)	 S C M C B A 	Stimulate nerves Stimulate the cardio and respiratory system which Can result in high blood pressure Could lead to associated heart problems Mask effects of injury causing possible longer tern Could lead to aggressive behaviour Being banned from competition Addiction		n heart rate
		∟iver / brain damage Withdrawal effects / depression		[

Page	5	Mark Scheme	Syllabus	Paper
		IGCSE – October/November 2012	0413	11
(e) (i)	• A • N	nt A Arousal level is low, possibly due to boredom c Not feeling psyched-up towards task or event. As a result performance is poor / below par.	or tiredness.	
	• B • K	nts B-C Between points B and C performance is at its p Known as "optimal" performance Zone of optimal arousal	potential best	
	• lf • C	nts C-D f arousal levels continue beyond point C perfo Over arousal or being "psyched out" occurs Participants perform badly compared to other a		[(
(ii)	 A H Ir tc N 	Activational / pep talk from coach Appropriate warm up activities prior to event Having a definite goal to reach and achieve Inspiration from the crowd, bright lights, specta o jumping event in athletics Activation as a result of hostile fans The importance of the match / trophy / prize	tor noise, synchronised	d clapping prior [វ
(f) •	Visu Vert Man Posi Feed Knov	dance / input given to us; ual; demonstrations show us what we need to bal; explanations must be brief and focus on t nual; support will keep us safe and give confid itive experiences gained dback wledge of results wledge of performance e of practice used	he important points	

Part practice. If it is a very complex skill such as tennis serve you could;

- watch a demonstration first
- break the parts down for example; the toss, the swing, contact, follow through
- put the parts together as a whole skill
- perform the skill in a game situation
- •

Variable practice. When practicing an open skill for example dribbling in Hockey you should practice in different situations. This is important because movements in an open skill will vary because of the environment

Fixed practice. When practicing a closed skill, keep repeating in the same conditions to reflect the environment of competition [6]

[Total 25]

[2]

[2]

Page 6	Mark Scheme	Syllabus	Paper
	IGCSE – October/November 2012	0413	11

Unit 2 Health, safety and training

- B2 (a) Psychological preparation, helps players prepare mentally for the competition
 - Physically preparing the body for exercise
 - Raises body temperature
 - Reduces risk of injury
 - Makes joints more mobile
 - (b) Promote the value of regular exercise for health and fitness
 - Teach the principles involved in training for different sports both in theory and practice
 - The importance of safety and safe practice in sport
 - How to avoid and treat sporting injury
 - Recognise the need for a healthy lifestyle
 - Recognise the need for a balanced diet
 - Recognise the need to take regular exercise
 - Recognise the need to avoid drugs and pollutants
 - (c) Graze / abrasions; small grazes which should be cleaned with water and covered to prevent infection
 - Bruises; occur when tissue is squashed between the bone and an object or person. This
 causes internal bleeding and blood leaks below the surface of the skin seen as a purple /
 blue colour. Swelling and pain are also signs and symptoms. Bruises should be treated
 with an ice pack
 - Blisters; caused by friction which produces a layer of fluid under the skin. Cover with a plaster, do not burst blisters
 - Sprains caused by twisting/over stretching ligaments at a joint. Rest the joint, apply ice to reduce swelling, compression to reduce blood flow to the injured area, elevate the joint
 - Strain injury to a muscle or tendon. Treatment the same as sprain
 - Cuts; stop the bleeding and letting the blood clot as quickly as possible. Use a clean pad to apply pressure until bleeding stops. Raise the injured part of the body to help slow bleeding down. Deep cuts may need medical attention or stitching [3]
 - (d) Assess the situation
 - Health and fitness; are you ready for competition
 - Techniques and skills; do you have the ability to compete at that level
 - Training; has sufficient training taken place to cope with the demands of the activity
 - Warm up; performed correctly
 - Clothing, equipment and footwear
 - Jewellery; removed before taking part
 - Rules; knowledge and understanding
 - Etiquette; expected codes of behaviour
 - Respect; for opponents / environment

[3]

[4]

Page 7	Mark Scheme	Syllabus	Paper
	IGCSE – October/November 2012	0413	11

- (e) Involves deliberately varying the speed and intensity at which you perform
 - Can involve a variety of activities, running, cycling, skiing
 - Can include variations of terrain, slopes, sand dunes etc
 - To improve aerobic and anaerobic fitness
 - Assists games players who need a combination of aerobic and anaerobic fitness
 - Enjoyable form of training as it allows you to train at your own capability
 - Reduces tedium in training
- (f) Protein intake for muscle build and repair
 - Days leading to event; carbohydrate loading several days and at least the night before
 - Prior to activity; eat a light digestible meal for example chicken, soup or porridge.
 - Do not intake too much fluid.
 - No fizzy / carbonated drinks as gasses will bloat
 - During activity; maintain fluid levels to replace water lost through sweat and to replenish energy.
 - High energy / power drinks containing simple sugars and glucose will replenish energy levels.
 - High energy foods such as bananas are high in simple and complex carbohydrate
 - Excessive eating prior to the event may lead to increased stores of fat
 - Daily energy food intake needs to be balanced with athletes' needs [6]

[Total: 20]

	Page 8	}			Ма	ark S	chem	ıe				S	yllabı	IS	Р	aper		
	0			IGCSE					er 20	12			, 0413			11		
Unit: B3(a	a) • •	Help Help Posi	os to pre os to reli tive fee	portuni event illr eve stre ling of lo	ness ess poking	-	-			physio	cal ad	ctivit	У				[4]	
(1	• Sub • Cre	oan, fo Reg Park Durba Wide A mo Easi	or exam ular put ting less n, for ex e open s ore natu ly acces	ial bene ple, swi blic trans of an is cample, spaces iral envi ssible fo t be giv	mming sport t ssue a eques for act ironme or peop	to and away strian tivity ent fo ple w	d from from cent to tak or hors rithin t	city re ce pla ses the c	centr ace city or	surrou		-		ons fo	r their	locatio	[1] on	[2
(4	c) • •	facili Trus	ities wit t funds;	s; athlet n their c indirec used to	ourse t payn	fees nents	, acco throu	omm ugh a	nodati appea	on and arance	d sub: and	siste	nce al	l paid i	for		; [2]	
((d) • • • • •	High Doci Quiz Spor Infor Pay Scho	umenta progra rts repo rmation to view	events	often w lews b s Tele rograr	vith "s oulleti etext / mmes	star" o ins ′ Ceef	celet	orities								[3]	
((e) • • •	Orga Pror Enco com Com help	anise fix note sp ourage petition nmunity ing with	facilitie tures ar ort; enco unior m will ens involver little re o the su	nd cor ourage nembe sure lo ment; spons	mpeti e par ers; by ong te as su sibilitie	tion; v ticipa y havi erm fu uppor es, fo	withi tion ing y iture ters, r exa	n the and e oung of the spec	club a encour er play e club etators	ind ag age p yers ii and l	gains beopl nvolv helpe	e to jo ved wi ers. Us	in the th coa sually f	ching a this me	eans	[3]	

Page 9	Mark Scheme	Syllabus	Paper
	IGCSE – October/November 2012	0413	11

- (f) Raise the profile of disabled people in sport / increase media coverage
 - Ensure plans for sport include disabled people
 - To provide sporting opportunities for disabled people
 - Improved access for disabled people
 - Encourage disabled to participate in international sport
 - To ensure the best use of resources
 - Increased finance / sponsorship / government funding
 - Ensure the sporting needs of disabled people are met
 - Promote greater social acceptability of people with disability

[Total: 15]

[4]