UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the June 2004 question papers

0413/01 PHYSICAL EDUCATION

0413/01

Paper 1, maximum raw mark 80

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These mark schemes are published as an aid to teachers and students, to indicate the requirements of the examination. They show the basis on which Examiners were initially instructed to award marks. They do not indicate the details of the discussions that took place at an Examiners' meeting before marking began. Any substantial changes to the mark scheme that arose from these discussions will be recorded in the published *Report on the Examination*.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes must be read in conjunction with the question papers and the *Report on the Examination*.

• CIE will not enter into discussion or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the June 2004 question papers for most IGCSE and GCE Advanced Level syllabuses.

Grade threshol examination.	ds taken for S	yllabus 0413 (Physical Educ	ation) in the J	une 2004	apacambridge.com
	maximum	mir	nimum mark re	equired for gra	ide:	Sec.
	mark available	А	С	E	F	OM
Component 1	80	57	40	21	14	

The threshold (minimum mark) for B is set halfway between those for Grades A and C. The threshold (minimum mark) for D is set halfway between those for Grades C and E. The threshold (minimum mark) for G is set as many marks below the F threshold as the E threshold is above it.

Grade A* does not exist at the level of an individual component.

June 2004



INTERNATIONAL GCSE

MARKING SCHEME

MAXIMUM MARK: 80

SYLLABUS/COMPONENT: 0413/01

PHYSICAL EDUCATION Paper 1

n Section A Answers Par Ma A skill is defined as something that : • You learn • • You operform efficiently If all or part of the following is given award the mark * 'The learned ability to bring about predetermined results with maximum certainty, often with the minimum of outlay of time or energy or both." 1 Person should : • Be seated 1 • Leans forward / inclined • Massage the abdominal area • Breathe steadily • 1 • Remain seated until fully recovered 1 A mark will not be awarded for just resting 1 A person who is extrinsically motivated may : • 1 • Lose interest if things go badly 0 1 • Doly seek to perform when rewards are high • Become more interested in his own performance which will not help in team games • • Resort to cheating and possible use of drugs Also • If rewards are too easily gained they lose their value • Performances may suffer if the result is seen as more important • Performers put themselves under pressure 1 Effects are	Page 1		Syllabus	Pape
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• Increased possibility of injury due to masking pain				
		• Increased possibility of injury due to masking pain		1

ſ	Page 2	Mark Scheme	Syllabus	Papel	Non
		PHYSICAL EDUCATION – JUNE 2003	0413	1	5

Page 2	Mark Scheme Sy	yllabus	
	PHYSICAL EDUCATION – JUNE 2003	0413	1 ape
			Pape 1
N	Iental well-being		
	• Free from stress / coping with mental challenge		
	• In control of your emotions		
	 Happy and being able to reflect on situation 		1
	• Pleased with yourself / having positive thoughts		1
	• Feeling safe and secure		
	he answer must be about increase		
Т	he performer will:		
	Produce adrenalin		
	Increase heart rate		
	Increase rate of respirationBreathe more shallowly		
	 Increase muscle tension in readiness for action 		
	 Starts to sweat 		
	 Feel butterflies in the stomach. 		
	Have a dry mouth		2
	• Feel shaky		2
C	besity creates problems for a performer because of the		
	• Lack of ability to sustain activity		
	Pressure on joints		
	• Lack of flexibility		
	Pressure on ligaments / muscles / bones		
	Occurrence of back problems		
	• Risk of a heart attack		2
	• Increase in the possibility of a stroke		2
L	eisure – a period of free time that is left over after work and		
e	verything else we have to do is finished.		
	ecreation- is what you choose to do within the time you have	e for	
16	eisure and should not include activities for payment		
	hysical recreation – activities of a physical nature that take pl a leisure time	lace	2
Г	requency, intensity, time, type – no marks awarded for FITT		2

Page 3	Mark Scheme	Syllabus	Paper	~an
	PHYSICAL EDUCATION – JUNE 2003	0413	1	1

			Mann. Papel
Page 3	Mark Scheme	Syllabus	Paper
	PHYSICAL EDUCATION – JUNE 2003	0413	1
10	Amateurs are unpaid		
	• Professionals can obtain payment from a variety of s	ources	
	including sponsorship		
	• Amateurs often have to work to support themselves		
	 Restrictions on the type of competitions that amateur enter 	rs can	
	 Compete for intrinsic reasons 		2
	• Compete for intrinsic reasons		
11	The performer may:		
	Become prone to minor illnesses		
	• Suffer from poor sleeping patterns		
	Become bored with participating / training		
	• Suffer from minor / stress related injuries		
	• Suffer from aches and muscular pain		
	• Suffer from a loss of appetite		
	• Suffer from soreness and joint pains		2
12			
	• Based in the local community so it is easy to get to		
	• Wide range of facilities available		
	• Community used to accessing facilities – schools		
	Improved facilities for schools		
	 Development of local / community based clubs at the facility 	2	
	facilityEnsures maximum use of facilities		
	 Due to the relative small cost most communities could 	Ы	
	access facilities	lu	
	 Activities can reflect the interests and needs of the 		
	community		
	Relatively low cost		_
	• Space saved by not needing additional facilities		3
			Total
			10tal 20
			marks
			muno

Page 4	Mark Scheme	Syllabus	Papel	Non
	PHYSICAL EDUCATION – JUNE 2003	0413	1	6

Page 4		yllabus	Papel
	PHYSICAL EDUCATION – JUNE 2003	0413	1
			MMM Papel 1
Question	Answers Section B1 Factors Affecting Performance	Ра	ırt mark
a	 Too much information causes confusion Need time to practise Complicated skills need to be broken down into smal parts 	1	
b	 Agility - to move in a controlled way and change direction Balance - the ability to control and adjust the body- n be able to move feet to stretch and reach Co-ordination - the ability to produce co-ordinated movement, interaction between motor and nervous system, maintain balance and controlled movement Speed of reaction - ability to move in relation to a stimulus, time taken between the response and completion of the task Timing - the ability to perform a skill at the right time. 		
c	 Knowledge of results, - from judges, results of a gam times/ distance performed, leagues and positions in ratetc. Knowledge of performance – use of video, feedback from a coach on specific points of technique and how can be improved 1 mark awarded for the type of feedback & 1 mark for methodelivery 	r it	
d	The activities should be placed on the line in the following or 3 1 4 2 Openclo Marks will be awarded for the position on the line rather than their relationship to each other	sed	
e	 The ability of muscles and tendons to stretch, extending and supportive tissue, strength of the muscles surrounding the joint, movement at a join will depend on the type of joint Age, illness, lack of exercise, diet 		

			Papel
age 5	Mark Scheme	Syllabus	Papel
	PHYSICAL EDUCATION – JUNE 2003	0413	1

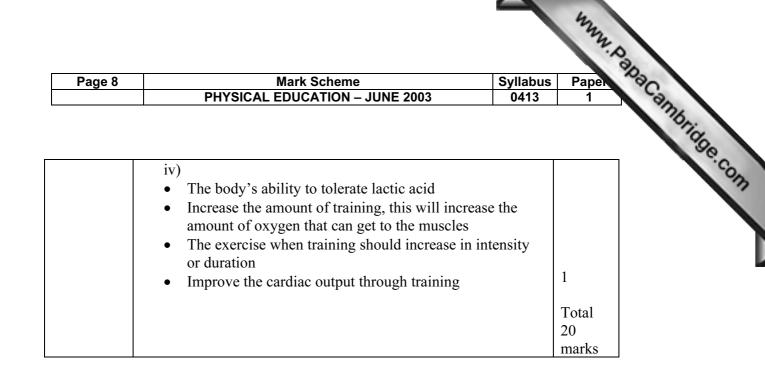
	ii) Passive stretching involves the use of external forces to move the limb to the extent of the stretch Active stretching involves movement beyond its normal range of movement and repeated rhythmically	1
	 iii) Sit and Reach Test - The legs must be fully extended with the soles against a bench – reach forward and make a mark – measure the distance between the first mark and the mark made when extending as far forward as possible If other recognized tests are used credit will be given, no marks 	
f	will be awarded for measuring flexibilityi) Both tests will measure cardio vascular fitness /	2
	aerobic fitness	1
	 ii) Multi Stage Fitness Test Run up and down a 20m course Run to coincide with a bleep The test has 21 levels Each level lasts 1 min The number of shuttles increase at each level so the speed increases Performer continues until he cannot beat the bleep Results recorded and compared against a table Or The Cooper 12 minute Run Ideally it should be performed on a 400 m track 	
	Any surface could be used but must be marked out Markers set out at 100m around the course The performer runs for 12 mins – can walk / run The distance is calculated Performance compared to charts	
	To gain four marks the candidates must describe methods of recording. iii) • Enables training to be monitored	
	 Helps in preparation for events Enables the performer to monitor the effectiveness of training schedules Results can be monitored and compared to results in previous years to compare level of fitness. 	4
	• Gives an accurate measurement of fitness	2
		Total 20 marks

[Page 6	Mark Scheme	Syllabus	Papel	~ar
		PHYSICAL EDUCATION – JUNE 2003	0413	1	

Page 6		yllabus	Pap
	PHYSICAL EDUCATION – JUNE 2003	0413	1
Question	Answers B2 Health safety and Training		Pap Part mark
			mark
а	• A drug is a chemical substance		
	• When introduced into the body it can alter the biochemical systems of the body.		1
	biochemical systems of the body.		1
b	Bruising		
	 Muscle strains, torn muscle, pulled muscles, sprain 		
	 Blisters, abrasions, grass burns 		
	Tennis elbow		-
	• Tendon/ ligament injury		2
0			
с	• Males need more than females		
	• Active people need more than non active		
	• Children need more than older people		
	• Type of lifestyle		2
	Body composition		
d	Answers must relate to the activity named – no mark for n	aming	
	the activity but the activity must be a contact activity.		
	 Safety equipment must be worn – shin pads etc Correct feetweer 		
	 Correct footwear Regulations regarding size, age, weight to ensure the 	noro is	
	 Regulations regarding size, age, weight to ensure the not a mismatch between performers 	lere is	
	 Mixed groups are not allowed beyond certain ages 	(12 in	
	soccer)	(12	
	 Players may not be allowed to continue if injured – 	blood	
	bin in rugby		
	• Not allowed to wear jewelry / keep finger nails sho	rt	3
e	i) Continuous training, Fartlek training, Interval		
	training		1
	ii)		
	Continuous training –		
	• training takes place at a steady pace		
	• it can involve a wide variety of sports		
	 it allows variety in training the intensity can most an individual's most set individual's most set. 	aada	
	• the intensity can meet an individual's no	eeds	
	improves all round fitnessno need for any specialist equipment		

Γ	Page 7	Mark Scheme	Syllabus	Papel	~2
		PHYSICAL EDUCATION – JUNE 2003	0413	1	

			4	
			m	
_				20
Page 7	Mark Scheme S PHYSICAL EDUCATION – JUNE 2003	Syllabus 0413		°C.
	Fartlek training – • mixes steady pace with flat out activity			papacambridge.com
	 which improves the anaerobic/ aerobic system can be applied to a wide variety of activities improves the body's ability to respond to sudde bursts of activity variety can maintain interest 			
	 Interval training – more specific to the activity easier to monitor progress better for activities that cover a precise distance can be used over shorter periods to help the boo ability to deal with lactic acid 		3	
	 iii) Progression would be brought about by increasing: time, distance, number of repetitions, difficulty of period of rest Answers must relate to the chosen type of training to gain 		1	
f	 i) Aerobic exercise is sustained over a long period time, uses oxygen in its entirety, more likely to endurance activity; exercise will be at a lower pii) Oxygen comes into the blood stream via the lungs The blood delivers the oxygen to the cell 	o be an power.	1	
	 Oxygen combines with glucose This produces energy Carbon dioxide and water are produced as waste products iii) When the demands made on muscles are greater th body's ability to supply it this becomes anaerobic 	han the	2	
	 activity Muscles will use glycogen to work when oxygen is available Muscles can only work for a short period of time Lactic acid will build up in the muscles Muscles become tired and painful Muscles can have a burning sensation Lactic acid can cause the muscles to stop Oxygen debt will occur to help remove lactic acid acid acid 			
	the muscle		3	



Page 9	Mark Scheme	Syllabus	Papel	Nor
	PHYSICAL EDUCATION – JUNE 2003	0413	1	

Page 9		Syllabu	us Pa
	PHYSICAL EDUCATION – JUNE 2003	0413	1
uestions	Answers B3 Reasons and Opportunities for Participation Physical Activity	n in	us Paj 1
	Increased amount of labour saving devices in the ho	ome	
	• Better medical services available - healthier		
	• Better working arrangements – flexi time		
	• More people able to work at home - access to home	e	
	computers		
	Longer retirement periodsFinish school earlier in the day		
	 Finish school earlier in the day More unemployment		1
	• More unemproyment		
	• Women presenters of sports programmes		
	 Women analysers on sports programmes 		
	 More women sports journalists 		
	• Articles about women's sports		
	• Advertising of women's sports		
	Creation of role models		2
	• Population –Needs to be built where enough people	can	
	use it		
	• The natural environment - maximize natural feature	es	
	(lakes etc)		
	 Cost – land in some areas is more expensive than others so it may be sited in areas where there is cheat 	nor	
	land available	aper	
	 Access – good road, public transport, parking 		
	 Planning permission, - there may be objections to 		
	plans, areas of natural beauty, conservation areas		
	• Location should reflect local / user needs	4	2
	i)		
	• The way in which the event/ sport is presented		
	• Possible bias towards an activity		
	• Interviews with high profile players		
	 Fly on the wall documentaries Not have a prime of the second second		
	 No longer just a live event Increased accessibility 		
	Increased accessibilityMinority sports become better known		1
	• Minority sports become better known		
	ii)		
	• Use of different types of match analysis		

Page 10	Mark Scheme	Syllabus	Papel	Non
	PHYSICAL EDUCATION – JUNE 2003	0413	1	6

Page 10		Syllab	us Papel
	PHYSICAL EDUCATION – JUNE 2003	0413	<u> 1</u>
	• Use of statistics		us Papel
	Video replays		
	• Use of technology – third umpire in cricket		
	• Use of expert opinions during televised coverage		
	• Use of technology / video to explain rules and		
	techniques		
	• Use of additional cameras i.e under water cameras i		
	swimming allow people to see techniques used that		2
	would not be easily visible from the surface		_
	Advantages		
	• able to concentrate on improving standards of		
	performance and train full time		
	• no distractions, able to travel to where important		
	competitions are held		
	• access to full time coach		
	• easier to access sponsorship		
	• earning potential considerable in certain sport – gol	lf,	
	tennis		
]	Disadvantages		
	• reliant totally on success in sport		
	• in the initial stages financially difficult		
	• not easy in the early stages to have a full time coact	h	
	and training facilities available		
	• access to competitions may not be easy in the early	r	
	stages and may result in needing to travel widely		
	(example - challenger events in tennis)		
	• professional sports are often high profile and if		<i>A</i> / 1
	successful the loss of privacy due to media intrusio		4 / 1 1 / 4
	• added pressure to attract sponsorship, the use of dru	ugs	1/4
	to gain success becomes an attraction		
	• Loss of interest due to over exposure to the sport		
	 Loss of interest due to over exposure to the sport long term injury due to over use as a junior 		
	 long term injury due to over-use as a junior Interests develop outside sport 		
	Interests develop outside sportIncreased demands on time from education or starting	nga	
	 Increased demands on time from education or starting job 	ng a	
	 Peer group pressure to be involved in other activitie 	s	
	 Peer group pressure to be involved in other activitie Demotivated due to lack of early success in senior 	's	
	Demotivated due to fack of early success in senior sport		
	 The activity becomes less fashionable and interest is 	s	
1	focused elsewhere	~	

Page 11 Mark Scheme Syllabus Paper				MANN P
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	Difficulties due to transport, accessing facilities, cos	st of	Papel 1	Se
	participation			
	• Support from family may not be as easily accessed			
	• The need for more advanced coaching not easily available			
	• The reason for success at a junior level may have be due to physical power rather than high levels of skill and this is not as effective at senior level			
	• Physically not developed (growth beyond puberty), unable to cope with the physical demands of senior sports			
	• Skills become more complex and not able to maintain progress	in		
	• Their sport may not be as popular as they become ol i.e rounders is played widely in schools but there are few opportunities for adults			
		Tot	tal 20	
		mar	rks	