

GCE

Physical Education

Advanced Subsidiary GCE AS H154

Mark Schemes for the Units

June 2009

H154/MS/09

OCR (Oxford Cambridge and RSA) is a leading UK awarding body, providing a wide range of qualifications to meet the needs of pupils of all ages and abilities. OCR qualifications include AS/A Levels, GCSEs, OCR Nationals, Key Skills, Entry Level qualifications, NVQs and vocational qualifications in areas such as IT, business, languages, teaching/training, administration and secretarial skills.

It is also responsible for developing new syllabuses to meet national requirements and the needs of students and teachers. OCR is a not-for-profit organisation; any surplus made is invested back into the establishment to help towards the development of qualifications and support which keep pace with the changing needs of today's society.

This mark scheme is published as an aid to teachers and students, to indicate the requirements of the examination. It shows the basis on which marks were awarded by Examiners. It does not indicate the details of the discussions which took place at an Examiners' meeting before marking commenced.

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 should be read in conjunction with the published question papers and the Report on the Examination.

OCR will not enter into any discussion or correspondence in connection with this mark scheme.

© OCR 2009

Any enquiries about publications should be addressed to:

OCR Publications PO Box 5050 Annesley NOTTINGHAM NG15 0DL

Telephone: 0870 770 6622 Facsimile: 01223 552610

E-mail: publications@ocr.org.uk

CONTENTS

Advanced GCE Physical Education (H554)

Advanced Subsidiary GCE Physical Education (H154)

MARK SCHEMES FOR THE UNITS

Unit/Content	Page
G451 An Introduction to Physical Education	1
Grade Thresholds	22

Unit G451 'An Introduction to Physical Education'

					Α	dditiona	l Guidar	nce
Section A	A – Anatomy a	and Physic	ology		Accept			Do not accept
1 (a)								
Joint	Joint Type	Movement	Agonist		Antagonist		pe of raction	Predominant Muscle Fibre
Knee	1 Hinge (synovial on own =Vg)	Extension	2. Rectus Femoris or Vastus Medialis or Vastus Lateralis or Vastus Intermedius (give credit if in first two attempts)	Sen Sen (giv	Biceps Femoris or nimembranosus or nitendinosus e credit if in first two mpts)	4. Conce (isotor own =	nic on	5. Fast Glycolytic / FG / Type IIb / 2b / Fast twitch + any of above) (do not accept fast twitch on own. Mark first attempt)
						5 ו	marks ir	n total for question 1(a)
1 (b)	Describe how the conduction system of the heart controls the cardiac cycle. 5 marks, 1 mark per point Correct phase of conduction system must link to correct phase of cardiac cycle / Conduction system must be in correct order					mark per point		
1 (atrial diastole)	Atria fill with blood relaxation phase /	during atrial dia	stole or		Additional Guida	-	Diasto	le on own g stage
2 (ventricular diastole)			travels (passively) into the e or relaxation phase of		CS1: links with Contraction of the atria (points 4 & 5)			le on own
3 (SA Node) CS1	ode) Sinoatrial node or S A node or SAN initiates or sends an impulse CS2			CS2 and CS3: link Contraction of the ventricles (point 8)		Pace maker for SA node SA nerve Heart is myogenic = Vg		
4 (atrial systole)	impulse spreads across atria causing atrial systole or Systole on own							
5 (remaining blood)	This causes the re (actively) into the v	maining blood in entricles	n the atria to be pushed		order			
6 (AV node) CS2	impulse reaches	AV or atrio ven	tricular node or AVN	_			AV nei	rve
7 (B of H	impulse distribu	ted or continues	down the bundle of His /					

P fibres) CS3	impulse distributed throughout or to the purkinje or purkyne fibres		
8 (ventricular	this causes ventricular systole or depolarisation or contraction		Systole on own
systole)	of both ventricles (from the bottom upwards)		
4 ()			5 marks in total for question 1(b)
1 (c)	Describe how the mechanisms of neural control cause changes 5 marks: 1 mark per point. Neural control and inspiration must b		
Neural contro	ol – sub max 3	Accept	Do not accept
1 (chemo.)	Chemoreceptors detect <u>decrease</u> in O2 or ppO2 or pH or <u>increase</u> in CO2 or ppCO2 or carbonic acid or acidity or lactic ac	Concentration for	ppO2
2 (prioprio.)	Proprioceptors detect movement or motor activity		Detect activity
3 (baro.)	Baroreceptors detect increase in pressure		
4 (thermo.)	Thermoreceptors or temperature receptors detect <u>increase</u> in <u>blood</u> temperature		
5 (RCC)	Messages are sent to the respiratory control centre (RCC) or to the inspiratory centre (in the medulla oblongata)		Expiratory Centre or ECC
Inspiration			
6 (nerve	Increased stimulation of external intercostals (EIM) via intercostal ner	ve or	
stimulation)	diaphragm via phrenic nerve		
7 (EIM &	External intercostal muscles (EIM) or diaphragm contract harder or		
diaph)	(than at rest)	more than at rest	
8 (SCM et	Sternocleidomastoid (SCM) or scalenes or pectoralis minor contract		Additional muscles
al)			recruited – on own
9 (volume	Ribs move up and out more than at rest / volume or area of thoracic	, ,	Lungs increase in size
and	increases more than at rest / pressure in thoracic cavity decreases r		
pressure)	(than at rest)	cavity	00 000
10 (air in)	More <u>air</u> into lungs / <u>increased</u> depth of breathing (from rest) ONLY AWARD IF LINKED WITH MECHANICS OF INSPIRATION (points 6-9)		O2 or CO2 or individual gases
Expiration			
11 (S Rs)	Stretch receptors (in the lungs) stimulate the expiratory centre	Hering-Bruer refloperates	ex RCC for expiratory centre
12 (active)	Expiration becomes active (rather than passive)	•	
13(additional	(these are): internal intercostals / obliques /		Abdominals
muscles)	transverse abdominus / rectus abdominus		

G451 Mark Scheme June 2009

14 (volume	Ribs move down and in more (than at rest) / volume or area of thoracic		
and pressure)	cavity decreases more (than at rest) / pressure in the thoracic cavity		
	increases more (than at rest)		
15 (air out)	More <u>air</u> out of lungs / <u>increased</u> rate of breathing (from rest)		O2 or CO2 or
	ONLY AWARD IF LINKED WITH MECHANICS OF EXPIRATION (points 11-14)		individual gases
		5	marks in total for question 1 (c)
1 (d)	Give two ways in which oxygen is transported in the blood.		
	2 marks for first part of question, 1 mark per point.		
1	(Combines) with or in haemoglobin / as oxyhaemoglobin or HbO2		Carried in red blood cells = Vg
2	(Dissolved) in blood plasma		
		2 mark	s in total for first part of question
	Describe the effect of smoking on the transport of oxygen in the blog marks for second part of question, 1 mark per point.	ood.	
3 (CO)	Smoking produces (high levels of) carbon monoxide		Cigarettes contain carbon monoxide
4 (gas ex)	less efficient gaseous exchange /		Build up of tar in alveoli = less
	decreased diffusion gradient of O2 or between O2 in alveoli and O2 in blood		gaseous exchange
5 (affinity)	haemoglobin has a greater affinity for CO than O2 / carbon monoxide has a greater affinity for haemoglobin than oxygen	Hb for haemoglobin	
6 (less O2)	Less O2 is transported in the blood /		Less room for O2 in Hb
,	Less O2 is absorbed or carried (by the haemoglobin) /		
	haemoglobin is not fully saturated with O2 /		
	PO2 (PPO2) decreases in the blood		
		3 marks ir	total for second part of question

		Additional Guidance
1 (e)	Evaluate critically the impact of endurance activities on the ca	rdiovascular system.
	10 marks – Levels marked question	,
Level 3	A comprehensive answer:	Discriminators from L2 <u>are likely</u> to include:
	detailed knowledge & understanding	impact of aerobic adaptations developed well
8-10 marks	effective analysis/critical evaluation and/or discussion /	Good knowledge of CHD
	explanation / development	(and perhaps) an understanding of how endurance
	clear and consistent practical application of knowledge	activities can protect against coronary heart disease
	accurate use of technical and specialist vocabulary	
	high standard of written communication.	
Level 2	A competent answer:	Discriminators from L1 are likely to include:
	 satisfactory knowledge & understanding 	 reference to aerobic adaptations
5-7 marks	• analysis/critical evaluation and/or discussion / explanation	reference to CHD
o i marks	/ development attempted with some success	
	some success in practical application of knowledge	
	 technical and specialist vocabulary used with some 	
	accuracy	
	 written communication generally fluent with few errors 	
Level 1	A limited answer:	
	basic knowledge & understanding	
0-4 marks	little or no attempt to analyse/ critically evaluate and/or	
0-4 illai KS	discuss	
	 little or no attempt at practical application of knowledge; 	
	technical and specialist vocabulary used with limited	
	success;	
	written communication lacks fluency and there will be	
	errors, some of which may be intrusive	

1 (e) Indicative content: Candidate responses are likely to include: (relevant responses not listed should be acknowledged)

Indicative Content

Endurance Activities

- 1. e.g. jogging, cycling, swimming, rowing etc
- 2. carried out 3+ times per week
- 3. 30 minutes + each time
- 4. working at sub-maximal or low or medium intensity or below OBLA working at 60% or 60% to 85% of maximal heart rate / aerobic exercise
- 5. (doing above) will cause aerobic adaptations of the cardiovascular system (that benefit health and fitness) or **increase** efficiency of the cardiovascular system
- 6. (doing above) will provide a high level of protection against CHD or will lower chance of heart disease

Also:

- 7. leading a healthy, active lifestyle will protect against CHD
- 8. ..and help to maintain a healthy cardiovascular system

Endurance activities and aerobic adaptations (Heart adaptations)

- 9. (myocardial or cardiac or heart) hypertrophy / increase in strength or elasticity of the myocardium or heart
 - increased stroke volume or SV
 - e.g. from as low as 55ml to as high as 120ml at rest (guideline only)
 - e.g. from as low as 80ml to as high as 220ml during maximal exercise (guideline only)
 - increased EDV due to greater stretch of the myocardium
 - decreased ESV due to more forceful contraction of myocardium
 - increased maximal cardiac output or max Q
 - e.g. from as low as 14l/min to as high as 40l/min (guideline only)
 - decreased resting heart rate
 - bradycardia or resting heart rate below 60bpm

(Blood Vessel adaptations)

- 10. reduction in blood pressure
- 11. increased efficiency of coronary circulation
- 12. capillarisation or vascularisation at alveoli and muscle cell
 - allows for greater gaseous exchange during external or internal respiration
- 13. increased elasticity of arterial walls or better vasoconstriction or vasodilation
 - increased efficiency of vascular shunt mechanism

(Blood adaptations)

- 14. increased blood volume
- 15. increased haemoglobin density or more red blood cells
- 16. increased oxygen carrying capacity in the blood
 - steeper diffusion gradient of oxygen between the blood and the muscles or at the site of internal respiration

(overall)

- increased: VO₂ max / aerobic capacity / endurance capacity
- delayed OBLA

Lack of endurance activities

- 17. sedentary lifestyle or lack of endurance activities can damage the cardiovascular system or lead to CHD or heart disease
- 18. CHD is any condition that is detrimental to the efficiency of the cardiovascular system
- 19. arteriosclerosis
 - a condition where the walls of the coronary arteries become thicker or hard or less elastic
 - this prevents vasoconstriction and vasodilation of arterioles
 - · less efficient vascular shunt mechanism

20. atherosclerosis

- most common cause of CHD
- the accumulation of fatty deposits or cholesterol or plaque or atheroma on the walls of the coronary arteries
- leads to a narrowing of the lumen that can be easily blocked by a blood clot
- leads to stroke or heart attack or myocardial infarction

21. heart attack or myocardial infarction

- a sudden and severe restriction or complete blockage of oxygen supply to the
- will usually cause permanent damage to the heart wall

22. angina

- a pain in the chest caused by the partial blockage of a coronary artery
- causes a lack of oxygen to the myocardium

23. further discussion of other CHD risk factors:

- e.g. hypertension or high blood pressure
- systolic bp above 140mmHg and/or diastolic bp above 90mmHg
- e.g. -smoking; poor diet, stress, hereditary, diabetes etc

GLOSSARY OF TERMS

OBLA = onset of blood lactate accumulation

CHD = coronary heart disease

EDV = end diastolic volume

ESV = end systolic volume

Q = cardiac output

Hg = mercury

LDL = low density lipoprotein

HDL = high density lipoprotein

Endurance activities and Protection against CHD

(endurance activities reduce risk of CHD because of:)

24. reduced blood cholesterol or blood lipids

25. reduced LDL cholesterol

- LDL cholesterol is high in blood lipids that build up on the walls of coronary arteries
- causes atherosclerosis and arteriosclerosis

26. increased HDL cholesterol

- HDL cholesterol is low in blood lipids
- it will remove LDL cholesterol from the walls of the coronary arteries
- this reduces the risk of atherosclerosis and / or arteriosclerosis

(this in turn)

- reduces the risk of angina or heart attack or myocardial infarction
- less chance of fatty deposits building up on the walls of the coronary arteries and restricting or stopping the flow of oxygen to the myocardium

27. BUT if endurance activities are risky if carried out with CHD or by an unfit or old or untrained or obese person

- blood pressure will increase to dangerous levels
- · increased risk of heart attack or myocardial infarction
- increased risk of chest pain due to angina
- increased stress placed on the cardiovascular system

Section A Total [30]

Section B: Acquiring Movement Skills		Add	litional Guidance
OCOLI	on B. Addaning movement okins	Accept	Do not accept
2 (a)	The learning of movement skills is often divided into phases. Identify the three phases of learning movement skills. Using practical example 6 marks - 2 marks max for each phase. Descriptive point must be accompani		
1.	Cognitive phase	,	Beginner / novice / first
2.	Demonstration e.g		
3.	Leads to a mental picture (being formed) / Mental Rehearsal / understanding what needs to be done e.g		
4.	trial and error / lots of mistakes e.g		
5.	Movement (often) lacks fluency or rhythm / movement jerky e.g		
6.	Needs conscious thought on technique e.g	on skill/ movt	
7.	Unable to use intrinsic feedback / only extrinsic feedback effective e.g		
8.	Associative phase		Middle / learning phase
9.	Matching or associating mental model with actual performance e.g Motor programmes begin to be formed e.g		
10.	Practice or rehearsal occurs e.g		
11.	Uses knowledge of results (KR) or knowledge of performance (KP) / kinaesthesis or kinaesthetic or intrinsic feedback can be used e.g.		
12.	More trial and error / learning from or fewer mistakes e.g	More consistent / effective	
13.	Increased fluency or rhythm / movement less jerky e.g	More efficient	
14.	Some never leave this stage e.g		The longest phase
	<u> </u>		
15.	<u>Autonomous</u> phase		Last / third / expert/ automatic / Longest phase
16.	Accurate or well grooved or consistent or habitual e.g		
17.	Fluent or rhythmic e.g		
18.	Little conscious control needed/ automatic / spare attentional capacity (can focus on tactics or strategy) e.g		
19.	Able to use intrinsic or kinaesthetic feedback effectively e.g		
20.	May return to associative phase / need to keep practising (to stay in this phase) e.g		
			marks in total for question 2 (

		Accept	Do not accept					
2 (b)	Describe and explain the effectiveness of TWO different types of guidance given for learning movement skills. 4 marks, 2 marks max for each type of guidance. MUST MARK FIRST TWO ATTEMPTS ONLY. MUST IDENTIFY TYPES OF GUIDANCE FOR DESCRIPTION MARK TO BE AWARDED.							
Visua	al guidance							
1	Description: demonstrations / pictures / charts / video / DVD / court or pitch markings / markers / guidance lines / boxes or other suitable example							
2	Explanation: Effective because it: builds a mental picture or gives visual representation / increases understanding of movement requirements Not effective if: wrong model or poor demo shown / poor practice shown which may be copied							
Verb	al guidance							
3	Description: instructions / talking through it / telling or advising you what to do							
4	Explanation: Effective because it:builds on knowledge gained by visual guidance / gives information to improve performance / give strategies to help understanding / helps understanding of tactics Not effective if: too much information given / information overload occurs							
Manı	ual guidance							
5	Description: physical support or help / moving joints or limbs through movement / manipulation of body by coach							
6	Explanation: Effective because it: gives confidence / encourages correct proprioception or kinaesthesis / increases safety in potentially risky activities (e.g. trampolining) Not effective if: too much help given because it can limit proprioceptive experience/s / used for too long as performer becomes reliant / for autonomous stage of learning							
Mech	nanical guidance							
7	Description: use of equipment or apparatus or aids / e.g. using twisting belts or arm bands or scrum machine or tackle pads or stabilisers on a bicycle or other suitable example							
8	Explanation: Effective because it: gives confidence / encourages correct proprioception or kinaesthesis / increases safety in potentially risky activities (e.g. trampolining) Not effective if: too much help given because it can limit proprioceptive experience/s / used for too long as performer becomes reliant							
		4 marks ir	total for question 2 (b)					

		Accept	Do not accept					
2 (c)	The learning of motor programmes is important in developing effectiveness in performing physical activities. Give an example of a motor programme and describe how it is <u>formed</u> and <u>stored</u> .							
	4 marks, 1 mark for a suitable example and 3 marks for how it is formed / stored.							
	Must hit point 1 and 2 for max.							
1	(Example): A well learned motor skill (programme) of candidate's choice e.g. tennis serve / place kick in rugby / square cut in cricket / golf drive / lay-up shot in basketball / forward roll / over-arm throw or other specific physical skill	General terms if qualified; Hitting or striking or throwing or kicking or catching a ball = BOD	sport in general e.g. Football General terms if not qualified; e.g. shot / throw / hitting or striking or throwing on own = Vg					
2	Stored in long-term memory							
3	Linking sub routines		made up of subroutines chunking					
4	Through rehearsal or practise or overlearning							
5	By reinforcement or feedback / creating S-R bond / watching a role model							
6	If outcome is meaningful or important or required or performer is motivated							
		4 marks i	n total for question 2 (c)					

			Accept	Do not accept		
2 (d)	Discuss the ways in which operant conditioning can contribute to the learning of positive behaviours associated with a balanced, active and healthy lifestyle.					
	6 marks, 1 mark per point.	Sub max 4 from * points				
1	*S-R bond formed or strengthened					
2	*through (positive) reinforcement (when healthy behaviour is shown)	or praise or reward or enjoyment or fun	(positive) feedback			
3	suitable example of positive reinforce or having fun following a healthy diet)	ment (e.g. badge given for eating healthily or exercising				
4	*Shaping or guiding or modifying beh	aviour				
5	*by manipulating or changing the	environment				
6	suitable example of manipulating env grounds / limiting unhealthy choices f	ironment (e.g. removing coke machines from school rom menu)				
7	*Trial and error / having a go / experi	menting				
8	suitable example of trial and error (e.grogramme or varied menu)	g. try out activities / school offers varied activity				
9	behaviour)	dance (about following a healthy lifestyle can modify				
10	suitable example of the above (e.g. d	octor tells you to exercise)				
11		t others (are most likely to modify behaviour)				
12	suitable example of the above (e.g. wanting to copy them)	atching your parents follow an active lifestyle and				
13	*when benefits are felt or seen (reinf	• •				
14	suitable example of benefits (e.g. follofeeling energised or improving body s	owing an exercise programme and becoming fit or hape)				
			6 marks in	total for question 2 (d)		

		Additional Guidance
2 (e)	Describe the types of transfer that can occur when learning a Using practical examples, explain the effects of transfer on the 10 marks – Levels marked question	
Level 3 8-10 marks	A comprehensive answer:	Discriminators from L2 are likely to include: At least four different types of transfer are effectively described Both learning and performing have been covered Clear understanding of difference between pro-active and retroactive transfer At the top of this level explanations might include links to schema and variable practice
Level 2 5-7 marks	A competent answer: satisfactory knowledge & understanding analysis/critical evaluation and/or discussion / explanation / development attempted with some success some success in practical application of knowledge technical and specialist vocabulary used with some accuracy written communication generally fluent with few errors	Discriminators from L1 are likely to include: At least three different types of transfer have been referred to or two described effectively The effects of transfer have only been partially explained There are few if any links to variable practice or schema
Level 1 0-4 marks	 A limited answer: basic knowledge & understanding little or no attempt to analyse/evaluate critically and/or discuss / explain or develop little or no attempt at practical application of knowledge technical and specialist vocabulary used with limited success written communication lacks fluency and there will be errors, some of which may be intrusive	

2 (e) Indicative content: Candidate responses are likely to include: (relevant responses not listed should be acknowledged)

Numbered points = knowledge / understanding Bullet points = likely to be development of knowledge

1. Positive Transfer

Description

2. Where one skill / movement helps the learning (and performance) of another

Explanation of effects:

- Encourages similar S-R bond between two skills / transfer of SR bond from one skill to another
- Helps develop correct motor programme
- Effective if similar elements of both skills are highlighted by coach / identical elements theory
- · Best if previous skill is well learned
- Similarities in processing requirements will increase possibility of transfer
- Highlight transferrable elements
- Ensure practise conditions reflect competition conditions

3. Negative Transfer

Description

4. Where one skill / movement hinders the learning (and performance) of another

Explanation of effects:

- Performer can respond incorrectly to similar stimuli eg tennis player playing squash plays forehand with stiff wrist rather than correct squash technique
- Hinders stimulus response compatibility
- · Perfomer can confuse subroutines or elements between two skills
- Differences in kinaesthetic feedback can cause confusion in the learner
- Avoid teaching conflicting skills close together (e.g. in same week or term)
- Ensure original skill well learned to avoid negative transfer
- Occurs when performer is required to produce a new response in a well known situation
- Negative transfer can de-motivate the performer or learner
- 5. **Proactive Transfer** (skill from past affecting learning now)
- 6. Where a previously learned skill affects the (current) learning and/or performance of another skill (award BOD if 'helps' or 'hinders' used rather than affects)
 - Proactive transfer can be positive or negative

(e.g. a tennis player takes up badminton - the **previously** learned smash in tennis affects the **current** learning of the overhead clear in badminton (can be positive or negative))

- 7. Retroactive Transfer (learning now affecting a previously learned skill)
- 8. Where the current learning of a new skill affects the **performance** of a previously learned skill

(award BOD if 'helps' or 'hinders' used rather than affects)

- Retroactive transfer can be positive or negative
- Negative retroactive transfer less likely with highly skilled performers eg Andy Murray's tennis would not be adversely affecting by him playing recreational squash or badminton

(e.g. a tennis player takes up badminton - the **current** learning of the badminton overhead clear affects the previously learned smash in tennis (can be positive or negative))

9. Bilateral Transfer

10. This is transfer from limb to limb (e.g. arm to arm / leg to leg)

(NB – do not credit arm to leg or equivalent side to side =BOD)

• Bilateral transfer can be positive or negative

(e.g. goal keeper diving to left and right / footballer kicking with both feet / basketballer left and right hand lay-up shot)

General – inc. variability of practice / schema theory:

- (it could be argued that) all learning is based on transfer
- Transfer involves learning through the influence of skills with similar response requirements
- Judgement or perception of environment can be affected by transfer
- Transfer helps develop or update motor programmes
- Transfer helps the building of **schema** or experiences stored in the LTM for future application or modification of motor programmes
- When first skill is well learned, opportunities for expanding schema are increased

(e.g. a well grooved top spin forehand in tennis offer more opportunity for transfer to a cross court forehand)

• Variable practice helps to encourage transfer / need to vary practice to give a wide range of experiences that can be drawn upon from training to the 'real game'

Section B Total [30]

Section C:			Additi	onal Guidance			
		dies relating to participation in physical activity	Accept	Do not accept			
3 (a)		each of the following: sportsmanship; gamesmanship; percent	eived risk?	1			
(i)							
1	(sportsmanship)	fair play / playing to the letter and spirit of the rules or game / playing to the written and unwritten rules / gentlemanly behaviour or conduct / showing respect for others or to opponent / Being gracious in victory and defeat		Playing by the book / not cheating / Etiquette / respect on own / sticking to the rules / keeping true to the game / example on own e.g. shaking hands after game			
2	(gamesmanship)	stretching or bending the rules or pushing the rules to the limit (to gain an unfair advantage) / playing to the written but not the unwritten rules		breaking or not following rules /cheating / gaining an advantage / acting aggressively / example on own e.g. time wasting			
3	(perceived risk)	Imagined or controllable risk or hazard or threat / no real danger / no actual risk		danger / dangerous play / example on own e.g. abseiling feels risky but is safe if all safety procedures are followed			
3 (a) (ii)	1 mark, must ide	nponents of a healthy balanced lifestyle ntify 3 components to gain ONE mark - Mark first three respon response with 'KU' – 3 'KU's = 1 mark	nses only				
4	(healthy balanced lifestyles)	Physical well-being / physical exercise / being (physically) fit / injury or illness prevention / sufficient rest or sleep a nutritious or balanced or healthy or good diet / not smoking or taking (illegal) drugs / moderation in alcohol consumption / personal hygiene / mental well-being / control of or low or no stress or pressure / stress relief / mental well-being or good mental state/ 'free' time / work-life balance / hobbies / emotional or social well-being / social life / positive relationships	Wellness / being in good mental condition /	Hydration / drinking enough water / Life that has equilibrium			
			4 r	narks in total for question 3 (a)			

	5 marks, 1 ma	rk per point.	Accept	Do not accent
1	(provision)	Lack of equipment or facilities or kit or (local) clubs / lack of money / low income / too expensive	Accept	Do not accept Lack of opportunity or provision on own / / too much pressure on own / lack of coaches
2	(choice)	Don't like exercise / do other things / don't want to / negative attitude	Lack of enjoyment or motivation	lazy
3	(confidence / ability)	Lack of confidence / low self esteem / no good or don't think any good / don't like to show body / self-conscious	feel don't look good when exercising / don't like sweating	
4	(access)	Can't get there / no transport / distance from facilities		'too far away' on own
5	(risk)	Risk of being out at night / risk of injury		
6	(tired)	Tired or lethargic after school or college or work		
7	(time)	No time / commitment to part-time jobs or study		
8	(friends / family / religion)	Lack of friends who participate / peer pressure (not to participate) / 'no-one to go with' / parents or family members don't participate or encorage / lack of role models / religious or cultural beliefs	accurate examples of religious or cultural or social barriers e.g. clothing	
9	(school)	Negative school experience put/s them off / schools offer limited range of activities	Accept any relevant aspect of a negative school experience	
10	(health / disability)	Poor health / obesity / asthma or other suitable health related example / accept any suitable factor relating to disability		
11	(weather)	Unfavourable weather		

			Addition	al Guidance
			Accept	Do not accept
3 (c)		easons for the continued existence and popularity of surviving ethn ark per point. Candidate must explain the point to gain a mark.	ic sports today.	
1	(local)	Because they are locally significant or unique to area / Because of (increased) local pride		
2	(annual)	Because they take place annually or on public or bank holidays and so people make a point of going or are free to go or other suitable explanation		
3	(occasional)	Because they are occasional or rare and so interest is maintained or other suitable explanation		
4	(social / festival)	Because they are social or festival or community occasions or celebrations / because of the carnival atmosphere / because they are entertaining or enjoyable / / they bring people together / due to focus on 'pub' or links with drinking or alcohol	because they are fun	because they are rowdy or violent
5	(tradition)	Due to tradition / part of heritage or folklore / celebration of past / pass from generation to generation / medieval customs		traditional on own
6	(isolation / ethnic identity)	Due to isolation or location in rural areas and so ethnic identity maintained / as a retention of ethnic or cultural identity / because part of the culture (of the area)		
7	(Paganism)	Because of Pagan or religious beliefs which require participation		ritual or ceremonial or supernatural
8	(tourism)	Because they attract tourism or visitors or publicity / commercial opportunities / they bring money to area / media interest or coverage		raises awareness of sport
	1		5 ma	arks total for question 3 (c)

			Additiona	ll Guidance
			Accept	Do not accept
3 (d)		ve effects that the media can have on sport.		
	6 marks, 1 mark			T
1	(participation)	increased participation (in sport)		
2	(funding)	media attracts sponsors or advertising which brings money to sport / selling of TV rights		increased funding or more money to sport on own / advertise on own
3	(role models)	positive role models promote sportsmanship		role models promoted on own
4	(myths & stereotypes)	myths or stereotypes can be broken (e.g. women can't play football or other suitable example)		
5	(minorities)	minority sports or sports of minority groups highlighted (eg wheelchair basketball or netball or other suitable example)		
6	(entertainment)	media makes sport more entertaining or attractive to spectators / rules or timings or seasons or format or structure changed to suit TV /changes to sport to speed up action or scoring (eg Twenty20 cricket)	excitement generates spectatorism	entertain on own
7	(technology)	impact of (media) technology (eg: slow-motion replays or 'miked' referees or Hawk-eye or video umpires or other suitable example) which helps officials or increases interest or understanding	accept reference to increased entertainment if linked with technology	
8	(status / promotion)	sport promoted / status of sport raised / sport gets good reputation / increases status of certain clubs		advertises club on own / raises awareness of sport
	•		6	marks total for question 3 (d

		Additional Guidance					
3 (e)	Explain the commercialisation of the Olympic Games since 1984 and how the Olympic Games can be a vehicle for nation building. 10 marks – Levels marked question						
Level 3	A comprehensive answer:	Discriminators from L2 <u>are likely to</u> include:					
8-10 marks	 detailed knowledge & understanding effective analysis/critical evaluation and/or discussion / explanation / development clear and consistent practical application of knowledge; accurate use of technical and specialist vocabulary; high standard of written communication. 	 an understanding of the background to commercialism understanding of the principle of nation building both parts of question answered well 					
Level 2	A competent answer:	Discriminators from L1 <u>are likely</u> to include:					
5-7 marks	 satisfactory knowledge & understanding analysis/critical evaluation and/or discussion / explanation / development attempted with some success some success in practical application of knowledge technical and specialist vocabulary used with some accuracy written communication generally fluent with few errors 	 some knowledge of the principle of nation building both parts of question have been answered 					
Level 1	A limited answer:						
0-4 marks	 basic knowledge & understanding little or no attempt to analyse/evaluate critically and/or discuss or explain little or no attempt at practical application of knowledge technical and specialist vocabulary used with limited success 						
	 written communication lacks fluency and there will be errors, some of which may be intrusive 						

(explanation of)	: Commercialisation of the Olympic Games:
(amateurism)	1. (pre 1970s or 1980s) Olympic Games was amateur or for amateurs / athletes not paid / professionalism frowned upor
(inequality)	 2. 'Athletes' from some countries were better funded or supported than others / gap between some countries and others USA – scholarship system 'Eastern bloc' – state funded / UK – lagged behind / athletes had full or part time jobs or other suitable example/ 'trust funds'
	set up for UK athletes
(commitment)	(In order to realistically compete) athletes needed to train or commit full time
(scandal)	 The move from amateurism to professionalism was associated with scandal or was not smooth / 'shamateurism' or fake amateurism
(IOC)	5. IOC initially against commercialisation of Games / after Montreal the IOC allowed more commercial involvement IOC gradually accepted need for commercialism / IOC decisions increasingly linked to funding issues
(Montreal '76 / financial disater)	 The Montreal Games (1976) were a financial disaster / host countries under great financial pressure before commercialisation of Games
(LA 1984)	7. Los Angeles (1984) as the turning point or start of commercialisation or was the first highly commercialised Games
(Uberroth)	8. Peter Uberroth employed to commercialise Games or was responsible (for commercialisation of the Games)
(companies)	 9. (Private) companies invested in or built the major facilities Since commercialisation the facilities have been more spectacular
(TOP)	10. Impact of The Olympic Partner (TOP) programme / TOP partners free to display Olympic logo companies became (official) sponsors or suppliers or licenses / Games attractive to sponsors e.g. Coca-Cola/Visa/McDonald's/Panasonic/UPS/Kodak or other suitable example
(Positive Impact)	11. (Many argue that) commercialism has saved or improved the Olympics / commercialism now the norm
(TV rights)	12. TV (or radio companies) charged (for coverage rights)
(TV)	13. The Olympics have become commercialised due to TV / commercialism linked to growing (global) TV audience / impact of 'golden triangle'
(profit for hosting)	 14. Countries or cities now see financial value in hosting Games / Olympic Games now a profit maker / companies use the Games to raise profile or make profit Reference to credit crunch and financial issues leading up to future Olympics

(Nation Building)	15. (Nation Building can increase:) prestige or status or image of country / increased national pride / country gains
(Talleri Dallallig)	publicity or is 'put on map' or on world stage or is showcased / world 'looks in' and get a positive view
	Nation Building for host country (e.g. China)
	Nation Building for the country of successful visiting athletes (e.g. Ethiopia)
, , , , ,	So increased tourism
(shop window)	16. Shop-window effect (operates)
	 Those in the host country 'look out' and feel appeased or get 'feel good' factor / 'feel-good' factor or
	appeasement for host nation or home supporters supporting home team
	e.g. or Sydney 2000 or other suitable example
(political tool)	17. Olympic Games can be used as a political tool / sport and politics linked /sporting success reflects political
	success / sport a vehicle for achieving increased political stability or popularity / sporting success (said to) reflect
	power of country
	e.g. of link/s between sport and politics e.g. Munich OGs / Berlin 1936 (Hitler and Jesse Owens)
(China – gov)	18. (In China the) government controls and funds (much of) sport / China has centralised system
(Beijing - new China)	Beijing Olympics (2008) were a 'coming out party' for China / an opportunity for China to show its (alleged)
,	changing (more open) system or (alleged) political reform or show that Communism works / to show its
	emergence as a world power
(Beijing - economy)	Beijing Olympics (2008) were an opportunity for China to show its economic status
(Beijing - facade)	Beijing Olympics (2008) were an opportunity for China to conceal human rights issues or problems or to (try)
(==,,g	to) escape from poor human rights record / countries (sometimes) hide behind a facade or behind Olympic
	success / a false picture can be created
	Section C Total [30]
	Section C Total [50]

Grade Thresholds

Advanced GCE Physical Education H154 H554 June 2009 Examination Series

Unit Threshold Marks

U	nit	Maximum Mark	Α	В	С	D	E	U
G451	Raw	90	56	50	44	38	32	0
	UMS	120	96	84	72	60	48	0
G452	Raw	80	64	57	50	43	36	0
	UMS	80	64	56	48	40	32	0

Specification Aggregation Results

Overall threshold marks in UMS (ie after conversion of raw marks to uniform marks)

_	Maximum Mark	Α	В	С	D	E	U
H154	200	160	140	120	100	80	0

The cumulative percentage of candidates awarded each grade was as follows:

	Α	В	С	D	E	U	Total Number of Candidates
H154	10.22	23.16	41.36	61.89	82.31	100	11927

11927 candidates aggregated this series

For a description of how UMS marks are calculated see: http://www.ocr.org.uk/learners/ums results.html

Statistics are correct at the time of publication.

OCR (Oxford Cambridge and RSA Examinations) 1 Hills Road Cambridge **CB1 2EU**

OCR Customer Contact Centre

14 – 19 Qualifications (General)

Telephone: 01223 553998 Facsimile: 01223 552627

Email: general.qualifications@ocr.org.uk

www.ocr.org.uk

For staff training purposes and as part of our quality assurance programme your call may be recorded or monitored

Oxford Cambridge and RSA Examinations is a Company Limited by Guarantee Registered in England Registered Office; 1 Hills Road, Cambridge, CB1 2EU Registered Company Number: 3484466 **OCR** is an exempt Charity

OCR (Oxford Cambridge and RSA Examinations) Head office

Telephone: 01223 552552 Facsimile: 01223 552553

