



Physical Education

Advanced GCE A2 7875

Advanced Subsidiary GCE AS 3875

Mark Schemes for the Units

January 2008

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Any enquiries about publications should be addressed to:

OCR Publications PO Box 5050 Annesley NOTTINGHAM NG15 0DL

Telephone:0870 770 6622Facsimile:01223 552610E-mail:publications@ocr.org.uk

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[1]

2562 The Application of Physiological and Psychological Knowledge to Improve Performance

Section A

Application of Anatomical and Physiological Knowledge to Improve Performance

- 1 (a) Fig 1 shows an athlete in a 100m hurdles race.
 - (i) Use your anatomical and physiological knowledge to complete the joint analysis table below for the athlete's left trailing leg. [5]

Joint	Joint Type	Articulating Bones	Movement	Agonist	Antagonist
Joint 1 Athlete's Left Knee	1 Hinge	Femur and Tibia	2 Flexion	3 Biceps Femoris/ Semimembranosus/ Semitendonosus	Rectus Femoris
Joint 2 Athlete's Left Ankle	Hinge	4 Tibia, Fibula, Talus	Dorsi Flexion	Tibialis Anterior	5 Gastrocnemius/ Soleus

(ii) Give one exercise that could be used to strengthen the rectus femoris and one exercise to strengthen the tibialis anterior.

1	Rectus Femoris -	Leg extension/Squats/Leg Press	[1]

- 2 Tibialis Anterior Toe Raises
- (iii) Identify two structures of a synovial joint and describe the role of one during physical performance [3]

3 marks in total (structure/role of joint) 2 marks sub max for structure

Z ma	2 marks sub max for structure					
Str	Structure		Role			
1	Ligaments	2	Hold joint in place/join bone to bone			
3	Cartilage (hyaline/articular)	4	Prevents wear and tear/friction/ absorb compression			
5	Muscles/tendon	6	Provide strength or support/allow greater range of movement			
7	Synovial fluid	8	Lubricates/nourishes cartilage/rids joint of waste debris			
9	Pads of fat	10	Absorbs shock/protect from wear and tear			
11	Bursae (sacs containing synovial fluid)	12	Helps reduce friction			
13	Joint capsule/fibrous capsule	14	Stabilise joint			
15	Synovial membrane	16	Secretes synovial fluid			
17	Menisci	18	Improves fit of the joint			

It is recommended that an athlete completes a cool down after exercise.

Describe three ways in which an active cool down affects the vascular system of the performer. [3]

- 1 Prevention of blood pooling
- 2 Keeps capillaries/arterioles dilated/maintains vasodilation
- 3 Maintains venous return/blood flow
- 4 Removal of waste products/lactic acid/repay Oxygen debt
- 5 Maintains blood pressure
- 6 Keeps metabolic activity elevated
- 7 Maintains skeletal muscle pump/respiratory pump

(c) Explain, using a practical example from sport, how either size or direction of force can affect performance in PE and sport.

Explanation

- 1 Size of force affects how far/fast an object travels
- 2 Direction of force affects the direction/trajectory of the object/distance a flighted object will travel/if direction of force outside centre of gravity spin will occur/if direction of force is applied through centre of gravity it will cause linear motion
- 3 Larger size of force causes object to accelerate faster/smaller size of force causes object to accelerate slower
- 4 Larger size of force causes object to decelerate faster/smaller size of force causes object to decelerate slower
- 5 Size of force can change an objects shape more/less

Example

A snooker player must apply the correct size of force to the cue ball to ensure the colour ball reaches the pocket.

A golfer must ensure the ball is struck in the correct direction from the tee to hit the green/avoid hazards.

[Total marks: 15]

(b)

[1]

[1]

January 2008

Mark Scheme

2 Fig 2 shows lung volumes of a performer at rest. (a)

- (i) Identify the two lung volumes marked A and B. [2]
 - 1 A - Inspiratory Reserve Volume
 - 2 **B** - Expiratory Reserve Volume
- (ii) Describe tidal volume. Explain what you would expect to happen to tidal volume during exercise.

Description

3	The volume of air inspired <u>or</u> expired per breath	[1]
4	It would increase	[1]

(b) Fig 3 shows the dissociation curve. During exercise this curve moves to the right.

What physiological factors cause the curve in Fig. 3 to move. [4]

- 1 Increase in blood/muscle/body temperature
- 2 Decrease in partial pressure of oxygen within the muscle (cell)
- 3 Increase in oxygen diffusion gradient
- 4 Increase in partial pressure of carbon dioxide within the muscle (cell)
- 5 Increase in acidity of blood/carbonic acid/lactic acid
- Lower blood pH 6
- 7 Bohr Effect

(c) Describe how intrinsic control affects the cardiac output of a performer during exercise. [4]

- 1 Increase in venous return
- 2 Causing more blood to enter the right atrium
- 3 Which causes the SA node to increase rate of firing
- 4 Therefore HR/cardiac output increases
- 5 More blood enters the left ventricle
- 6 Which causes the left ventricle to stretch/Starling's Law
- 7 This in turn increases stroke volume
- 8 An increase in temperature causes acceleration of nerve impulses to the heart

Describe how the conduction system of the heart control the cardiac cycle. [3] (d)

- 1 An impulse is sent from the SA node/pacemaker of the heart
- 2 The impulse is received by the AV node
- This causes atrial systole/contraction/depolarization 3
- 4 The impulse then travels down the bundle of His
- To the Purkinie Fibres 5
- 6 This causes ventricular systole/contraction/depolarization

[Total marks: 15]

Section B

Acquiring and Performing Movement Skills

3 (a) (i) A skilful performance is fluent and follows a technical model. Identify two other characteristics of skilful performance and use a practical example for one of them.

3 marks in total Sub max 2 if no example

1	Aesthetically please/pleasing to the eye	eg gymnast performs a graceful floor routine
2	Learned/practiced	eg tennis player is taught a serve then practices it
3	Efficient/effortless	eg swimmer moves smoothly through the water
4	Goal directed/pre-determined goal	eg golfer knows where to hit the ball to make it fade

(ii) Use a practical example to explain what is meant by an open skill

3 marks in total Sub max 2 if no example

- 1 Affected by the environment/unpredictable/constantly changing environment
- 2 Performer must adapt to changing environment/performer is reactive
- 3 Skill is externally paced
- 4 Skill is mainly perceptual/involves decision making

(b) (i) What is selective attention and why is it important to the short term memory?

3 marks in total

What is selective attention? Sub max 2 marks

- 1 Focus on relevant detail
- 2 Filter for information (into STM)
- 3 Irrelevant information ignored

Why is selective attention important to STM? Sub max 1 mark

4 STM limited in capacity/can only store 5-9 items/only stores for up to 30 secs

(ii) What strategies can be used to ensure that information is retained and easily retrieved from the long term memory.

3 marks in total

- 1 Practice/rehearse/repeat/over learn the skill
- 2 Intensify the stimulus/make stimulus more noticeable
- 3 Intensify the emotional experience (eg enjoyable/painful)
- 4 Link to past experience/associate with familiar information
- 5 Information must be relevant/meaningful
- 6 Reward/give positive reinforcement
- 7 Chunking
- 8 Keep information simple
- 9 Imagery
- (c) Use a practical example to explain the psychological refractory period.

3 marks in total Sub max 2 if no example

- 1 (Stimulus 1/S1) First stimulus identified/detected
- 2 (Response 1/R1) Response to first stimulus
- 3 (Stimulus 2/S2) Second stimulus received
- 4 (Response 2/R2) Second response initiated
- 5 Delay in second response caused by bottleneck in brain/brain can only deal with one stimulus at once/brain is a single organ channel/first response not cleared before second occurs/the delay caused by being able to process only one piece of information at a time makes reaction time longer

[Total marks: 15]

4 (a) Use practical examples to explain both intrinsic and extrinsic feedback. 4 marks in total

Sub max (1 for intrinsic - 1 for extrinsic) if no examples

(Intrinsic)

- 1 Feedback or feeling from within the performer/internal/kinaesthetic/ proprioceptive/ knowledge of performance
- 2 Suitable example eg gymnast feels legs are not straight in handstand

(Extrinsic)

- 3 External information about the performance/information gained from environment or others/knowledge of results
- 4 Suitable example eg seeing ball go into the net/coach informing about technique

(b) Use a practical example and Fig ? to explain the inverted U theory or arousal. 3 marks in total 2 marks max if no example

- 1 As the performer's arousal level increases.....
- 2 Performance increases as arousal increases but.....
- 3 To an optimum point at moderate arousal level
- 4 Beyond/below moderate arousal performance will deteriorate

(c) (i) What is a motor programme? 2 marks in total

- 1 Plan of a whole skill/pattern of movement/series of generalised movements
- 2 Stored in the long term memory
- 3 Can be retrieved by one decision
- 4 Adjusted/modified/updated each time skill is performed
- 5 Made up of sub routines
- 6 (Sub routines) run in sequential/hierarchical order

(ii) Use a practical example to explain what is meant by open loop motor control.

3 marks in total

2 marks max if no example

- 1 Appropriate example/eg golf drive/sprint start in athletics
- 2 Applied to fast/ballistic movements
- 3 (Feedback available) but not able to be acted upon during skill
- 4 Changes to (executive) programme can only occur after completion of skill/Knowledge of results/knowledge of performance used to adjust skill next time
- 5 Level one subconscious control/no attention to plan after start of action

6

(iii) Use a practical example to explain what is meant by the initial conditions and the response specifications of schema. 2 marks in total - must use a practical example

- 1 (Initial conditions) pre-performance information about environment and the performer from previous experiences eg outfielder in cricket would have information available about how far away the wicket is situated
- 2 (Response specifications) pre-performance information available from past experiences about what is required in present situation eg a long throw will be needed to reach the wicket keeper

(iv) Why is variability of practice an important part of schema? 1 mark in total

1 Different experiences in practice situations will build up/extend the schema/schema will be able to be used in many situations/greater transfer of skills

[Total marks: 15]

2563 Contemporary Studies In Physical Education

1 (a) (i) Identify three characteristics of play, outdoor education and sport. [9]

9 marks in total

Sub max three from any one section Mark only first three responses for each concept

Characteristics of Play

	acteristics of Flay	
1	(time)	time decided by participants / no set time / no time limits
2	(spontaneous)	spontaneous / spur of the moment / unplanned
3	(who?)	children / childlike / adults
4	(organisation)	simple or low organisation or structure /
		basic equipment / no set numbers
5	(space)	space or boundaries decided by participants / no set space or
		pitch / no space limits / no boundaries
6	(option)	optional / choice / voluntary
7	(enjoyable)	enjoyable / fun / self-fulfilling / intrinsic value
8	(rules)	flexible or relaxed or few rules / rules by agreement /
		no set rules
9	(non-serious)	non-serious / non-productive /
	,	result or outcome not important
Char	racteristics of Outdoo	
10	(PE)	part of PE / learning / part of National Curriculum/ specialist staff
11	(children)	school children / young people
12	(risk & safety)	risk and safety / real or perceived risk / risk /
	(sense of adventure
13	(unpredictable)	unpredictable / changing environment
14	(natural envt)	in natural environment
15	(artificial facilities)	using artificial facilities
	racteristics of Sport	
16	(rules)	rules / NGBs / organised / structured / officials / sophisticated /
	()	codified
17	(competitive)	competitive / winners and losers / leagues / competitions
18	(commitment)	commitment / dedication / determination / effort / endeavour /
_		training
19	(skill)	(performer shows) skill / prowess / fitness / tactics (performer
-		is) high level / elite / international
20	(time)	strict time limits / set time / time constraints
21	(intrinsic)	intrinsic rewards/satisfaction/personal fulfilment
22	(extrinsic)	extrinsic rewards / winning or outcome important / for job /
	(professional / for money / serious
23	(behaviour)	sportsmanship / fair play / gamesmanship
24	(chance)	with element of chance
25	(equipment)	specialist equipment or specialist kit
26	(space)	set space or place / fixed boundaries /
		purpose built or specialist facilities
27	(▲)	sponsorship / media coverage / commercialism / spectatorism

(ii) Give reasons for differences in the quality of Physical Education between schools. [4]

4 marks in total (Accept "funding" if applied)

1	(sports college)	sports college
2	(staffing)	quality or number of staff / variety of specialist skills within PE department /
		involvement of non-PE specialist teachers or coaches
3	(facilities)	quality or amount of facilities or equipment /
		access or transport to facilities or equipment /
		eg if swimming pool or natural environment nearby
4	(time)	time available / whether schools stick to minimum identified by NC
5	(range/exams)	whether school offers examinations in PE or
		other related courses / range or choice of activities
6	(children)	attitudes of pupils towards PE /
		impact of class sizes on lessons or learning
7	(attitudes)	attitudes towards or status of or tradition of PE /
		attitude of Head Teacher / how highly PE is valued
8	(extra-curricular)	extra-curricular or competitive opportunities
9	(links)	links / partnerships with clubs or other relevant organisation(s) eg sports colleges or UKSI / SSCOs / TOPSport / TOPS Programme

(b) (i) Identify <u>two</u> further characteristics of ethnic sports in the UK other than tourism and isolation. [2]

2 marks in total:

1	(traditional)	traditional / re-creation or celebration of past /	
		part of heritage or folklore	
2	(local)	local / unique to area	
3	(social)	social or community occasions	
4	(festival)	festival / celebrations	
5	(occasional)	occasional / annual	
6	(ritual)	ritual / ceremonial / religious	
7	(rowdy)	Rowdy	

(ii) Give reasons why sporting success is good for emergent countries such as Kenya and how sporting success is achieved. [6]

6 marks total: sub max 4 from one section:

Why	Why sporting success is good for emergent countries				
1	(stability)	it can stabilise a government			
2	(health)	it can help develop a healthy or health conscious society			
3	(nation building)	it can promote nation building or the shop-window effect / it can increase national pride or status or respect / it can boost image of country or government / it puts country on world stage / it increases tourism or wealth			
4	(appeasement)	it can appease or stabilise the people or country / it can promote a 'feel good factor' or encourage social control			
5	(integration)	it can integrate the people or tribes / it can bring the nation or tribes together			
6	(defence)	it can improve defence			

How	How is sporting success achieved?			
7	(high profile)	'high profile' or Olympic sports chosen		
8	(low tech /physique)	low tech or simple or natural or cheap sports chosen / sport(s) chosen that suit physique or lifestyle or environment		
9	(role models)	role models		
10	(selection)	by: selection of limited range of sports / by focusing on top performers / elitism		
11	(unequal funding)	by: unequal funding or disproportionate funding / funding limited to one or two sports or top performers		

2563

2 (a) (i) What is meant by each of the following:

[3]

-

3 marks total – one for each of: sub max of one from each section	
(discrimination)	

(dis	(discrimination)					
1	(unfairness / prejudice)	unfair treatment or unequal treatment / acting on or showing prejudice / bias or favouritism / accept relevant example of unfair treatment				
(ste	reotype)					
2 (image)		a simplified or standardised image or view / an idea held by one person or group about another / based on attitudes / leads to myths				
(a s	(a special interest group)					
3	(organisation)	organisation that encourage participation or opportunity or esteem by certain people / WSF/ DSE				

(ii) Account for comparatively low levels of participation in physical recreation and sport by people on low incomes.

[3]

3 m	arks total:	
Insu	ufficient funds for:	
1	(fees)	entrance fees / joining fees / club membership
2	(equipment)	kit / equipment
3	(coaching)	coaching
4	(transport)	transport
5	(childcare)	childcare costs
Alse	o not enough:	
6	(time)	may not have time / shift work / long working hours
7	(self esteem)	self esteem / self confidence / lower levels of self esteem associated with those of lower socio-economic status / culture surrounding some facilities or activities may put others off
8	(health/fitness)	lower levels of health or fitness associated with those of lower socio-economic status

(iii) How can school Physical Education departments increase the interest and participation of girls in physical activity? [4]

4 marks total:

(K/E/F)	ensure kit or equipment or facilities are 'suitable'
(choice / variety)	give choice of activities / give varied programme /
	cater for wide range of interests or levels of competition
(role models)	bring in role models or female sporting celebrities/
	sports person in school / emphasise achievements of females
(visits)	organise visits or tours / eg Wimbledon
(links)	form links with clubs or local specialist sports colleges
(balance)	value both participation and excellence
(staffing)	have adequate number of staff or well qualified staff /
-	more female staff
(status / attitudes	ensure PE has high status in school /
/ rewards)	support from management/
	ensure positive attitudes towards equal opportunities /
	rewards for participation
	(choice / variety) (role models) (visits) (links) (balance) (staffing) (status / attitudes

[3]

9	(special events)	organise special or promotional events / eg taster days / initiatives and ideas to promote participation / inter-form activities
10	(extra - curricular)	provide an extra curricular programme
11	(girls only)	'girls only' sessions or activities

(b) (i) What does the Women's Sport Foundation do to increase participation by girls and women? [2]

2 marks total:

1	(equality)	promotes equality	
2	(campaigns)	campaigns / promotional events / provides information	
3	(influence)	tries to influence national or regional government or sports councils / tries to change policies	
4	(leaders)	encourages more women into positions of responsibility/ eg coaching	
5	(profile)	raises the profile of women's sport or role models / tries to get more media coverage	

(ii) What are Sport England's main objectives and how does it attempt to achieve them?

3 marks total: sub max of 2 from one section

Mair	n objectives	
1	(participation)	to increase participation
2	(SSS)	<u>'start, stay</u> and <u>succeed'</u> /
		'more people, more places, more medals'
3	(nation)	to make England an active nation
4	(government)	to deliver government's sporting objectives /
		support government targets
How	Sport England tries to a	achieve them
5	(funding)	provides or distributes funding or lottery funding or government
		funding
6	(projects / campaigns)	accept any relevant project or campaign eg (Get) Active,
		Sporting Champions, Sport Action Zones
7	(sharing)	shares best practice/works with other organisations or NGBs
8	(information)	provides information / has website

Mark Scheme

Explain the causes of violent behaviour by both players and spectators in (c) high level sport. [6]

Levels mark scheme:

Level 3: 5-6 marks

- answers at this level are excellent or very good •
- a well developed answer showing very good knowledge and understanding
- answers is well balanced (both parts of question have been addressed) •
- at the top of this level points are very well explained
- at the bottom of this level points are well explained •

Level 2: 3-4 marks

- answers in this level are good or satisfactory
- a developed answer showing sound knowledge and understanding •
- both parts of the question have been answered but not necessarily equally balanced
- at the top of this level some points are explained •
- at the bottom of this level there have been attempts at explanation but overall answers are descriptive

Level 1: 1-2 marks

- answers in this level are weak or very weak
- an answer with little development and limited knowledge and understanding •
- only one part of the question has been answered •
- bullet points might have been used throughout little or no explanation of points

ent: (answers are likely to include some of the following): Γ

Indi	cative	conte
Play	ers	

пау	1013	
1	(frustration)	frustration with match officials or score or result or own performance / controversial decisions
2	(emotional intensity)	emotional intensity / pre-match hype or psyche-up / importance of result / local derby / team rivalry / pressure
3	(abuse)	chanting or abuse from crowd
4	(punishment)	lack of suitable punishment or deterrent
5	(provocation)	provocation by opponent / 'cheating' by opponents / gamesmanship
6	(weapons)	'weapons' /eg sticks or clubs or bats
7	(nature of game)	nature of game/ if body checking or contact part of game eg ice hockey or rugby
8	(kit)	if 'game' involves kit or equipment that 'de-humanises' opponents or officially protects them
Spe	ctators	
9	(frustration)	frustration with match officials or score or result or players
10	(emotional intensity)	pre-match hype / media hype / emotional intensity / importance of event / pressure
11	(abuse)	racism / provocation / verbal abuse
12	(punishment)	lack of suitable punishment or deterrent
13	(alcohol)	alcohol / drugs
14	(religion/tradition)	local derby / religion / traditional rivalry / team loyalty
15	(numbers)	over crowding / large numbers of fans / poor provision for spectators / poor policing or stewarding
16	(hooligans)	hooligans at football / some 'fans' attend to cause trouble / organised violence
17	(mass culture)	mass culture situation / peer pressure / tribal nature of event / loss of individual identity in crowd / diminished responsibility in crowd
18	(pitch violence)	violence or behaviour on pitch copied

Quality of Language

Three marks are available for the quality of Written Communication.

High:A well reasoned, well ordered developmental explanation.
In clear, concise and continuous prose.
Sentences and paragraphs follow on from one another smoothly and logically.
There will be few, if any, errors of grammar, punctuation and spelling.

3 marks

- Middle:Reasoned statements employing sound use of language.
Candidates express straightforward ideas clearly.
Sentences and paragraphs may not always be connected.
There may be some errors of grammar, punctuation and spelling, but not such as to
suggest a weakness in these areas.2 marks
- Low: An attempt at explanation with limited quality of language. The candidate expresses simple ideas clearly but may be imprecise and awkward in dealing with complex or subtle concepts. Errors in grammar, punctuation and spelling may be noticeable and intrusive suggesting weaknesses in these areas. 1 mark

2565 Physical Education: Historical, Comparative, Biomechanical and Sport Psychology Options

Se	ction	A: His	torica	I Studies In Physica	I Education.
1	(a)	a) (i)		v did the development of the railways help the growth of Association [2]	
			2 ma	arks for 2 of:	
			1	(teams)	teams could travel further in a shorter time/more distant away fixtures possible
			2	(supporters)	supporters could travel to watch their team/supporters clubs grew
			3	(competitions)	Leagues/cups/fixtures/competitions developed/regular/regional
			4	(rules)	rules standardised/FA formed (1863)/teams had to play to the same rules
			5	(social)	the train journey became a popular / enjoyable social occasion
		(ii)	ratio	onal sport after 1850	improved transport influenced the emergence of [5]
			5 ma	arks for 5 of:	
		_	1	revolutions	Industrial/urban revolution/s
			2	time	increased free time/Saturday half day/shorter working week/regular work patterns/more energy
			3	space 1	Less space led to pitches/stadia
			4	space 2	more space/public parks
			5	middle class	more middle class/middle class influence making it more civilised
			6	rights/reform/law and order	factory acts improved workers' rights/reform/improved working conditions/increased government support of working class/control of wagering
			7	patronage	industrial patronage/provision of facilities at factory/specialist facilities built/factory teams/excursion trips to seaside
			8	income/health	less poverty/earnings improved/enough for 'gate' money/improved health
			9	literacy	improved literacy/newspapers/specialist sporting press/improved business administration
			10	emancipation	more freedom for women to participate/impact of lawn tennis
			11	schools/unis	impact of ex-public school boys or ex-university boys
					0073

	(i)	Describe features specific to track and field athletics at the time [4]		
		1	(AAC)	Amateur Athletics Club (AAC) / governing body formed (1866)/clubs for gentlemen amateurs
		2	(amateurs)	amateurs were middle class/amateurs participate for love or intrinsic rewards/amateurs could not earn money from running/amateurs did not train seriously or aim to win at all costs/amateur athletics elitist
		3	(exclusion cause)	exclusion cause/no mechanic artisan or labourer could join the governing body
		4	(professionalism)	professionals ran for a living or to make money/professional athletics developed in cities/sports days organised by local promoters
		5	(corruption)	corruption or cheating in professional athletics/accept suitable example eg conspiracy promoters on handicapping
		6	(facilities)	most big cities had a track by mid century/large spectator attraction/urban sports festival followed decline of rural fairs
		7	(clubs)	cross country/harrier clubs/clubs for working class/harrier clubs evolved from hare and hounds
		8	(Olympic Games)	Modern Olympic Games established/impact of Baron Pierre de Coubertin/games to promote international relations or friendship among youth
	(ii)	Pub 2 ma	lic Schools.	different forms of athletics in nineteenth centu [ź /e identification and description for one mark
_			Identification	Description
	1	1	· · · ·	paper chase/adaptation from fox hunting/accept
		1	hare and hounds	accurate description ref dropping of 'scent' for others to follow
		2	Steeplechase/cross country	accurate description ref dropping of 'scent' for

2565	

(iii)	Exp	lain the growth and p	oopularity of pedestrianism. [5]	
	Leve	els mark scheme		
	 Levels mark scheme Level 3: 5 marks detailed answers with accurate explanations rather than brief identified of points both parts of question are addressed candidates show excellent knowledge and understanding of the grow and popularity of pedestrianism. Level 2: 3-4 marks at the upper end both parts of question addressed but there may be a of balance some points are discussed well while others are briefly identified candidates show good knowledge and understanding of the growth a popularity of pedestrianism. Level 1: 1-2 marks only one part of the question may have been answered 			
	•	answers are simplistic	•	
	•	points are identified ra	ather than discussed	
	candidates show little or very little knowledge or understanding of pedestrianism.			
	Grov	wth of Pedestrianism		
	1	(footmen)	footmen employed as messengers or as competitive runners	
	2	(wagering 1)	Gentry bet on outcome of their employees	
	3	(patronage)	gentry patrons looked after lower class runners/set up races/provided 'purses'/promoters/sponsors	
	4	(festival)	became huge festival occasions/great spectator attraction/highly organised/structured	
	5	(who/what?)	Robert Barclay Allardice/Deerfoot (Native American)/other suitable example/ 1000 miles in 1000hrs/hopping races around Hyde Park or other suitable example	
	6	(simple)	Cheap/simple equipment	
	7	(violence/ corruption)	cheating common/match fixing/violence among participants / crowd/pedestrianism into disrepute/bad reputation	
	8	(gentlemen)	gentlemen amateurs competed/to test themselves	
	9 	(rules)	rules established by organisers	
	Ρορι 10	ularity of Pedestrianis (festival)	sm festival occasions/popular spectacle/exciting	
		, ,	contest	
	11	(wagering 2)	wagering	
	12	(rewards)	prize money involved/fame/status/money for food/occupational/rags to riches	
	13	(linked with)	other associated attractions/horse racing/prize fighting	

(c)	Why did State Elementary School children not play organised team gas 1902?		chool children not play organised team games in [3]		
	3 marks for 3 of:				
	1	(time)	lack of time		
	2	(space)	lack of space/only had yard/road/classroom		
	3	(equipment/facilities)	lack of specialist facilities/equipment		
	4	(coaching)	lack of coaching/teaching expertise		
	5	(health/energy)	lack of health/energy/malnutrition		
	6	(militarism)	other aims more important/needed fitness for war/just performed badly in Boer War/Model Course imposed (by War Office)		
	7	(age)	children too young for large team games		
			TOTAL: [21 MARKS]		

(a)	(i)	Why	y is cricket a leading	professional sport in Australia?	[3]
		3 m	arks total		
		1	(Tradition)	Long tradition of cricket/tradition since settlement/Australia sporting tradition	
		2	(Colonialism)	Colonial influence/cricket brought from	
		2	(Colonialish)	England/game was played in the colonial era	
		3	(Motherland)	Victory against England/motherland seen as	
		0	(Mothenand)	measure/benchmark of progress/Ashes rivalr	v
		4	(Climate)	Favourable climate	y
		5	(Role models)	Role models to copy/inspiration from of outstanding players	
		6	(Commercialism)	Commercial opportunities/professional cricker now a business	t is
		7	(Media)	Increased media interest	
		8	(Trends/change)	Changes in rules/changes in times/flood lit cricket/World Series/coloured kit/game more exciting/major changes came from Australia	
		9	(Structure)	Well organised/clear pathway/structure to pro excellence/coach promising players	mote
	(ii)	-	lain how the Australia ormers.	an Institute of Sport (AIS) supports elite	[4]
_		4 m	arks total		
		4 m	(Centres of	Institutes are centres of sporting	
		1	(Centres of Excellence)	excellence/finishing schools	
			(Centres of		sor
		1	(Centres of Excellence)	excellence/finishing schools Institutes grant financial aid/give grants/spons athletes Provide sports medicine/physiotherapy/medic services	al
		1	(Centres of Excellence) (Sponsorship)	excellence/finishing schools Institutes grant financial aid/give grants/spons athletes Provide sports medicine/physiotherapy/medic	al
		1 2 3	(Centres of Excellence) (Sponsorship) (Sports medicine) (Coaching) (Competition)	 excellence/finishing schools Institutes grant financial aid/give grants/spons athletes Provide sports medicine/physiotherapy/medic services High level coaching/high quality coaching/hig qualified coaches Competitive opportunities/national/internation competition 	al hly al
		1 2 3 4	(Centres of Excellence) (Sponsorship) (Sports medicine) (Coaching)	 excellence/finishing schools Institutes grant financial aid/give grants/spons athletes Provide sports medicine/physiotherapy/medic services High level coaching/high quality coaching/hig qualified coaches Competitive opportunities/national/internation 	al hly al
		1 2 3 4 5	(Centres of Excellence) (Sponsorship) (Sports medicine) (Coaching) (Competition) (Athletic Career	 excellence/finishing schools Institutes grant financial aid/give grants/spons athletes Provide sports medicine/physiotherapy/medic services High level coaching/high quality coaching/hig qualified coaches Competitive opportunities/national/internation competition Athletic Career Education Programme/Career training outside of competitive sport. On line coaching/digital imagery/advanced 	al hly al
		1 2 3 4 5 6	(Centres of Excellence) (Sponsorship) (Sports medicine) (Coaching) (Competition) (Athletic Career Education A.C.E.)	 excellence/finishing schools Institutes grant financial aid/give grants/spons athletes Provide sports medicine/physiotherapy/medic services High level coaching/high quality coaching/hig qualified coaches Competitive opportunities/national/internation competition Athletic Career Education Programme/Career training outside of competitive sport. 	al hly al

(b)	(i)		line factors that have pro	omoted mass participation in sport and physical
		4 marks total		
		1	(Funding)	Government investment to improve sporting provision/De Gaulle programme
		2	(Additional funding)	Lottery/Business levy
		3	(Facilities)	Improved/high quality facilities/sports facilities provide throughout France/decentralisation/multi-sport facilitie
		4	(Joint provision)	Joint provision/shared facilities/school and community share
		5	(Sport for all policy)	Sport for all policy/sport pours tous promoted by the government/government plan to increase participation/don't have to be good to participate is th philosophy of sport for all/sport for all is the alternative to elitism
		6	(School delivery/ provision)	School has promoted mass participation through UNSS/Primary Sport Schools/Study sections/increase accessibility/improved the profile of sport
		7	(New games)	New games have been encouraged/become popular/new games like golf have become popular
		8	(Equality women)	Women's participation has increased/women made a target sports group
		9	(Equality disability)	Vigorous disability policy/Federation for less able/handicapped people/Federation Handisports (FF for less able people promotes mass participation
		10	(Climate/ Geography	Mass participation is promoted because of diverse climate for sport/space on the land
	(ii)			the quality of Physical Education in French
			ools?	
		3 m	arks total	
		1	(Decentralisation)	Decentralisation has given control to schools/regions/schools have autonomy/can decide what to teach/quality has improved due to decentralisation/individual schools have more control
		2	(Agencies)	UNSS deliver sport to all children/UNSS work with PE staff to deliver sport in school
		3	(Joint provision)	Facilities shared with community/facilities also used to public/high standard of facilities because of public used to public use of public used to public use of public used to public use of public used to public used
		4	(Initiatives)	Primary Sports Schools/specialist sports schools at primary level/Sport Study Sections
		5	(Equipment)	Improved quality of equipment in schools
		6	(Teacher qualification)	Improved teacher qualification/improved teaching standards have improved the quality of PE/STAPS/CAPEPS for teachers/upgrade of teacher training
		7	(Exams)	PE is part of the exam system/part of Baccalaureate exam
		8	(Inspection)	Inspection has improved the quality of PE/schools inspected every two years/quality is checked

((c)	In the	e USA attending a summe	er camp can be expensive.
				nic system of the USA is reflected in the range of benefits that a young person could gain by
			ding a summer camp in t	
			ks total	
		Socio	-economic system	
		1	(Choice of camp)	
				Camp is based on money/wealth of the family
		2	(Expense)	Expensive camps are better than cheap
				ones/money buys a quality experience
		3	(Sponsorship)	State sponsored camps for poor/less well off families
		4	(Business providers)	Sponsored camps reflect size/wealth of the company/the wealth of the business providing the sponsorship
		5	(Commercial camps)	Commercial camps are expensive/commercial camps only for wealth children
		Bene	fits	
		6	(Outdoor adventure/ activities)	Outdoor experiences/adventure opportunities
		7	(Specialist camps)	Sports/music etc. camps provide opportunity to improve skills/expertise/improve fitness
		8	(Self improvement)	Self improvement camps/improve image/weight loss camps/or eq
		9	(Socialisation)	Opportunity to meet people/to make friends
		10 ((Personal Development)	Leadership/teamwork/communication
		11	(Self-realisation)	Opportunity for self-realisation/finding out about yourself
		12	(Challenge)	Activities provide challenge/excitement/fun
		13	(Residential)	A residential experience/opportunity to live away from home/achieve independence
		14	(Patriotism)	Develop love of country/develop patriotism/patriotic rituals/spirit of frontierism
		15	(Environmental skills)	Learn about environment/safety/map reading/camp craft/or other suitable egs
		16	(Enrichment)	Enriching/life enriching/improve quality of life/preparation for life/leisure

Levels mark scheme.
Level 3: 6 – 7 marks
To achieve this level a candidate will fully develop at least one point relating to summer camps and the socio-economic system.
Answer will be well developed and will show sound knowledge and understanding of the benefits of the summer camps for children.
Some points will have been expanded and developed.
Answers will be well structured.
Candidates may point out that the socio-economic system is unfair/may comment on how equality is addressed.
Level 2: 3 - 5 marks
A candidate towards the top of this level will show some knowledge as to how the socio-economic system is reflected in the summer camp selection.
Some knowledge will be demonstrated relating to the benefits but detail may be lacking.
Answers will show some structure.
Level 1: 1 – 2 marks
A candidate at this level may not be aware of the connection between socio- economic system and summer camp selection.
Little knowledge or understanding of the benefits will be demonstrated.
Answers here will lack depth, detail and structure.
Quality of Language

Three marks are available for the quality of Written Communication.

High:	A well reasoned, well ordered developmental explanation. In clear, concise and continuous prose. Sentences and paragraphs follow on from one another smoothly and logically. There will be few, if any, errors of grammar, punctuation and spelling.	3 marks
Middle:	Reasoned statements employing sound use of language. Candidates express straightforward ideas clearly. Sentences and paragraphs may not always be connected. There may be some errors of grammar, punctuation and spelling, but not such as to a weakness in these areas.	suggest 2 marks
Low:	An attempt at explanation with limited quality of language. The candidate expresses simple ideas clearly but may be imprecise and awkward in with complex or subtle concepts. Errors in grammar , punctuation and spelling may be noticeable and intrusive sugg weaknesses in these areas.	U

[2]

[4]

[3]

	· · · · · · · · · · · · · · · · · · ·					
Section E	3: Biomechanical Analysis of Human Movement					
3 (a)	Fig 1 shows a golfer striking a ball off the tee. Sketch and label a diagram showing all the forces acting on the ball at the moment of contact. 2 marks total: 1 Force/F from edge of ball.					
	2 Weight/W from CM. F F F					
	W					
(b)	Explain the effect of a follow through when striking a golf ball.					
	4 marks total:					
	1 Increases the time the force acts on the ball.					
	 Increases the impulse of force acting on the ball. Increases outgoing/change in momentum of the ball. 					
	4 Increases outgoing velocity/speed of the ball.					
	5 Increases the distance/height the ball travels.					
	6 Increases the control/accuracy over the ball.					
(c)	Identify three types of spin and describe the effect of each of these on the flight path of a golf ball.					
	3 marks total:					
	A Tenerin will also deve the flight wath for also hall also in flight					
	 Topspin will shorten the flight path/make ball dip in flight. Backspin will lengthen the flight path/make ball appear to hang. 					
	3 Sidespin will make ball swerve/hook/slice.					

(d)	Explain what is meant by the Magnus Effect when a golf ball is hit with
	backspin. Use an airflow diagram to support your answer. [6
	Level 3 5-6 marks
	Candidates will give an accurate diagram and offer a full explanation of the Magnus Effect.
	Level 2 3-4 marks
	Diagram is mainly accurate but explanation may lack clarity and some coherence. At the top of this level candidates should show an understanding of how a pressure gradient is created and differences in the widths of air flow lines going over the top of and underneath the ball.

Level 1 1-2 marks
The diagram will be basic. There will be little attempt to explain the Magnus Effect. At the top of this level candidates will be able to show the direction of air flow in relation to the direction of travel and that the Magnus force acts upwards for backspin.
Indicative content. 6 marks total:

o sala	Direction of motion Direction of spi	n
	Magnus ②	
	Low pressure 🕤	
	High pressure	

1	(Diagram) Airflow line arrows opposite direction of motion.
2	(Diagram) Direction of spin in relation to direction of motion.
3	(Diagram) Narrower airflow lines above the ball.
4	(Diagram) Direction of force/Magnus at right angles to the direction of travel upwards.
5	Air travels further over the top of the ball.
6	Air travels faster over the top of the ball.
7	Creates a low pressure above ball/or on diagram.
8	Causes force to go from high to low pressure.
9	Non parabolic/non asymmetrical flight path.
	2 3 4 5 6 7 8

Mark Scheme

(e)	(i)	Sketch a free body diagram showing the forces acting on a golf ball with backspin during flight. [3]
		 3 marks total: 1 Weight/W (from CM) 2 Air resistance/fluid friction from CM/back of ball opposite direction of motion 3 Magnus force (from ball upwards at right angles to direction of motion)
		AR ² W
	(ii)	Using a separate diagram, show how you would work out the resultant force acting on this golf ball. [3]
		3 marks total: 1 Weight/W – Magnus and air resistance from same point. 2 Parallelogram. 3 Resultant force. 3 Resultant Air Air resistance Magnus-Weight or W-M if arrow pointing downward
		1

4	(a)	A performer's motive to avoid failure is regarded as less positive than the motive to achieve in sport.
		Identify the characteristics of a 'need to avoid failure' personality. [3]
		3 marks total:
		 Innate personality characteristics/natural traits/enduring Avoidance behaviour
		3 Avoids challenges/avoids excitement/avoids risks/takes easy route
		4 Takes unachievable challenges5 Avoids competition/less competitive
		6 Lacks confidence/self efficacy
		7 Lacks persistence on task/gives up (easily)
		8 Avoids taking responsibility for actions/attributes success to external
		factors/failure to internal factors
		9 Dislikes/avoids feedback/dislikes evaluation/dislikes/avoids audience
		10 Competition affects achievement motivation.
	(b)	What factors affect the formation and development of a cohesive team in
	(6)	sport? [4]
		4 marks total: Look for opposites
		1 Selection of those who are 'team players'
		2 Environment of compromise/players to respect one another/to listen
		3 Have a clear view of aims/goals/mission/share the same goals/similar reasons for playing
		4 Participants to share behavioural norms/similar outlook/beliefs
		5 Credit for personal success/highlight individual performance effects cohesiveness
		6 Overplaying team goals/aims/set appropriate goals
		7 The use of co-ordination practice/team building exercises
		 8 Encouragement/social support/encourage friendship 9 Reinforcement/praise cohesive/motivated behaviour/reward teamwork
		10 Punishment/drop non-team/un-cohesive players
		11 Encouragement of group identity/belonging
		12 Clarification/give individual responsibility/roles
		13 A leader who encourages teamwork/who leads how the team wants
		14 Split team up into smaller subgroups/combat the Ringelmann effect by dividing
		into small groups/having goals for sub-sets/smaller groups/size of groups
		15 Winning/losing
	<u> </u>	1

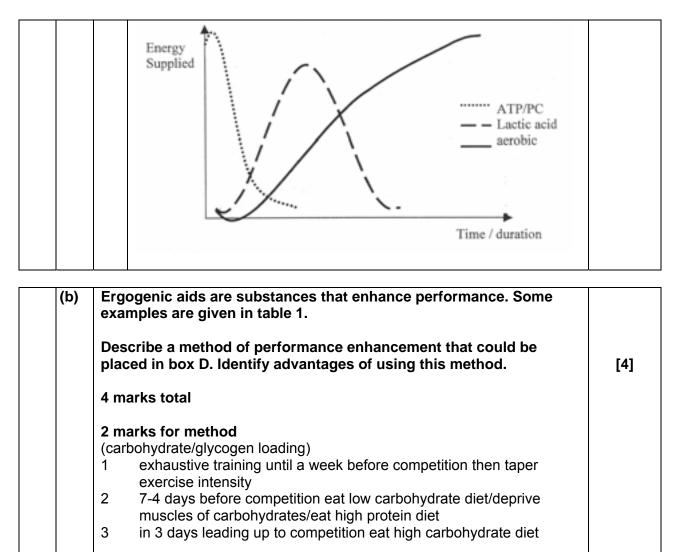
Many top sports' performers have a high level of confidence. Vealey's sports confidence model shown in figure 2 shows the relationship between (c)

	competitiveness and self-confidence in sport.
	Using figure 2 and practical examples, explain how subjective outcomes of a performance in sport can affect self-confidence. [5]
	5 marks total:
	(3 marks max if no practical examples)
	 Subjective outcomes relate to how the performer rates the performance/how well he or she has done/or equivalent application. SC-Trait is the innate/inbuilt/natural tendency to be confident. SC-State is the degree of confidence in a specific sports situation/efficacy If outcome perceived to be good then SC-Trait is increased. If outcome perceived to be poor/a failure then SC-Trait is decreased. Subjective outcome affects competitive orientation/level of competitiveness either positively or negatively. If outcome perceived to be good then competitiveness is increased. If outcome perceived to be good then competitiveness is increased. If outcome perceived to be poor then competitiveness decreases. Positive outcome/SC-Trait/competitiveness increases will raise state sport confidence (SC-State)/raise self-efficiency/will make performer more confident/encourage approach behaviour. Negative outcome/SC-Trait/competitiveness decreases will lower state sports confidence/will result in avoidance behaviour.
(d)	Goal setting is an important aspect in a sports performer's preparation for competition.
	(i) Using examples from sport, explain three main factors that make the setting of goals effective in sport. [3]
	3 marks total: Mark 1 st three
	(Based on SMARTER principle) (1 mark max if no sports examples – must have explanation as well as identification)
	 (Goals should be specific) directly linked to an outcome. (Goals should be measurable) an objective aspect that is measured. (Goals should be achievable) within reach/attainable/realistic/get success. (Goals should be relevant) at the right level/challenging/motivating. (Goals should be time-phased) include short and long term objectives. (Goals should be recorded) use of self-assessment/reviewed. (Goals should be recorded) records kept/written account/enables accountability. (Goals should be agreed) shared with all parties/other team members/agreement between coach and athlete/negotiated/accepted. (Goals should be positive) rather than negative/motivational/give sense of
	worth/avoid learned helplessness/exciting.

(ii)	How are process, performance and product goals used to improve performance in sport?[6]
	6 marks total:
	 Indicative content: (process) concerned with technique/style. (process) directs attention/gives information/targets to be more successful/be able to progress with more effective techniques/improves confidence. (performance) comparison with previous attempts/judged against other performances. (performance) improves times/intermediate results a stepping stone to improve outcome/gives feeling of achievement/satisfaction. (product/outcome) focus on end result/to win overall/concerned with outcome of competition. (product) gives motivating long term goal/can be used to aim even higher in the future/leads to progression/used as overall aim/may be just out of reach to motivate. Goal setting can raise self confidence. Goal setting can motivate/develop strategies to reach set goals. Goal setting can direct attention/focus efforts. Goal setting can regulate the amount of effort expended on a particular task/ensures no wasted effort. Application of SMARTER principle.
	 Level 3: 5-6 marks Explanation goes beyond recall Different affects shown from different types of goal setting (points 1-6 well represented) Level 2: 3-4 marks Mostly recall with most points generic for all goal setting Some attempt at development made (more than 1 point from points 1-6) Level 1: 1-2 marks Under-developed answer and entirely recall No attempt to recognise differences in types of goal setting
	TOTAL OF [21 MARKS]

2566 Exercise and Sport Physiology and the Integration of Knowledge of Principles and Concepts Across Different Areas of Physical Education

(a)	spo	owledge of the three energy systems underpins exercise and ort physiology.	
	(i)	Name an energy system and identify the missing information A, B and C for this system.	[3]
		3 marks in total (from <u>one</u> energy system only)	
		(ATP/PC system)	
		1 A = PC	
		2 B = sarcoplasm/cytoplasm	
		3 C = creatine kinase	
		(lactic acid system)	
		4 A = glycogen/glucose/carbohydrate	
		5 B = sarcoplasm/cytoplasm	
		6 C = glycogen phosphorylase/phosphofructokinase/PFK/lactate dehydrogenase/LDH	
		(aerobic system)	
		7 A = glycogen/glucose/fats/carbohydrate	
		8 B = sarcoplasm/mitochondria	
		9 C = glycogen phosphorylase/phosphofructokinase/PFK	
	(ii)	Sketch a graph of energy supplied against time to show when each of the three energy systems is predominant in relation to duration of exercise.	[3]
		3 marks in total	
		1 ATP-PC system correctly sketched and labelled	
		2 lactic acid system correctly sketched and labelled	
		3 aerobic system correctly sketched and labelled	



2 marks for advantage4 safe/minimal risk to health/legal

•	our of the terror to the utility of	1
5	increases activity of enzyme responsible for glycogen synthesis	
6	increases glycogen stores/endurance potential/capacity/train for	
	longer	
7	increases capacity for high intensity activity	
8	reduces recovery time/delays fatigue	
	6 7	 6 increases glycogen stores/endurance potential/capacity/train for longer 7 increases capacity for high intensity activity

9 allows higher quality interval training/strength training sessions.

(c)	afte Exp	r a period of aerobic t lain why these physic	ogical adaptations that have taken place training. plogical adaptations have occurred, giving ne heart and vascular system.	[5]
	5 m	arks in total arks for 5 of:	-	
	(hea	art) s	ub max 3	
	1	greater efficiency	allows more oxygen/blood to be pumped into the systemic circulatory system	ne
	2	increased size/hypertrophy/ athlete's heart	which increases the size of the ventricles allow increased end diastolic volume/more blood to e ventricles	
	3	greater elasticity	more blood entering the ventricles increases the stretching of the walls which results in a more to contraction	
	4	stronger myocardium/ muscle	increases force/strength (of contraction) allowin decreased end diastolic volume/more blood/ox be pumped out per beat	
	(vas	scular system) s	ub max 3	
	5	capillarisation/new capillaries developed	increases gaseous exchange/allowing more ox the body/expelling carbon dioxide and lactic ac efficiently	
	6	increased elasticity /vasomotor control	increases the effectiveness of the vascular shu mechanism/more efficient redistribution of card	-
	7	increased blood volume	better transport of gases/oxygen and carbon d	ioxide
	8	increased plasma count/reduces viscosity	which allows blood to flow more quickly/improv circulation	res
	9	increased red blood cells	increases haemoglobin density to allow for mo efficient transport of oxygen	re
	10	decreased blood pressure	less resistance to blood flow	
			TOTAL = [15	5 MARKSI

2	
Part one	
(a)	(Application of Anatomical and Physiological Knowledge to Improve Performance.)
	Fig 1 shows a performer at the moment of take off for a vertical jump.
	Sketch figure 1 and show the direction of the force acting on the jumper at this point. Describe the type of motion that will be produced as a result of this force giving examples in your answer.
	The effect a force can have on a body is explained by Newton's Laws of Motion. Use your understanding of Newton's Laws to explain how a performer executes a vertical jump.
	MARK SCHEME
	Force and Motion (4 marks)



	1 force shown travelling upwards	
	2 force shown travelling through the body/centre of mass	
	(Description of motion)	
	3 linear motion	
	4 when a body moves in a straight/curved line	
	5 with all its body parts moving the same distance in the same	
	direction at the same speed	
	(examples)	
	any suitable example that links to the definition above	
	eg luge, bobsled, downhill skiing, high diving in fixed body position, torso	
	of 100m sprinter, shot put	
·		

	vton's Laws (sub max 6 marks)
(fire	t law)
6	states that a body continues in a state of rest or uniform velocity unless acted on by an external force
(ap) 7 8	olication) an external force must be applied to the performer to allow take off from the ground
	cond law)
9	states that when a force acts on a body, the rate of change of momentum/acceleration is proportional to the size of the force causing it/takes place in the direction in which the force acts
(ap) 10 11	blication) the force applied to the performer must be upward the larger this force, the faster the performer will jump
(thir	rd law)
12	it states that for every action there is an equal and opposite reaction
(ap	plication)
13	as the performer exerts a downward force on the ground
14	the ground exerts an equal and upward force on the performer
Aer	obic exercise causes changes in heart rate.
Exr	blain how heart rate is regulated referring to neural, hormonal and
	insic control in your answer.
MΔ	RK SCHEME (sub may 6)
MA	RK SCHEME (sub max 6)
	RK SCHEME (sub max 6) gulation of heart rate
Reg (ne	gulation of heart rate ural control) (sub sub max 3)
Rec (ne)	gulation of heart rate ural control) (sub sub max 3) cardiac control centre/CCC primarily responsible
Rec (ne) 15 16	gulation of heart rate ural control) (sub sub max 3) cardiac control centre/CCC primarily responsible situated in medulla oblongata of the brain
Reg (ne) 15 16 17	gulation of heart rate ural control) (sub sub max 3) cardiac control centre/CCC primarily responsible situated in medulla oblongata of the brain controlled by the autonomic nervous system/ANS/under involuntary control
Rec (ne) 15 16	gulation of heart rate ural control) (sub sub max 3) cardiac control centre/CCC primarily responsible situated in medulla oblongata of the brain controlled by the autonomic nervous system/ANS/under involuntary control at start of exercise sympathetic nerves increase heart
Reg (ne) 15 16 17 18	gulation of heart rate ural control) (sub sub max 3) cardiac control centre/CCC primarily responsible situated in medulla oblongata of the brain controlled by the autonomic nervous system/ANS/under involuntary control at start of exercise sympathetic nerves increase heart rate/stimulation of SA node (caused by)
Reg (ne) 15 16 17	gulation of heart rate ural control) (sub sub max 3) cardiac control centre/CCC primarily responsible situated in medulla oblongata of the brain controlled by the autonomic nervous system/ANS/under involuntary control at start of exercise sympathetic nerves increase heart rate/stimulation of SA node (caused by) muscle receptors/proprio-receptors/receptors in muscles detecting
Reg (ne 15 16 17 18 19	gulation of heart rate ural control) (sub sub max 3) cardiac control centre/CCC primarily responsible situated in medulla oblongata of the brain controlled by the autonomic nervous system/ANS/under involuntary control at start of exercise sympathetic nerves increase heart rate/stimulation of SA node (caused by) muscle receptors/proprio-receptors/receptors in muscles detecting an increase in level of exercise
Reg (ne) 15 16 17 18	gulation of heart rate ural control) (sub sub max 3) cardiac control centre/CCC primarily responsible situated in medulla oblongata of the brain controlled by the autonomic nervous system/ANS/under involuntary control at start of exercise sympathetic nerves increase heart rate/stimulation of SA node (caused by) muscle receptors/proprio-receptors/receptors in muscles detecting an increase in level of exercise chemoreceptors detecting changes in blood/muscle chemistry
Reg (ne) 15 16 17 18 19 20	gulation of heart rate ural control) (sub sub max 3) cardiac control centre/CCC primarily responsible situated in medulla oblongata of the brain controlled by the autonomic nervous system/ANS/under involuntary control at start of exercise sympathetic nerves increase heart rate/stimulation of SA node (caused by) muscle receptors/proprio-receptors/receptors in muscles detecting an increase in level of exercise
Rec 15 16 17 18 19 20 21	gulation of heart rate ural control) (sub sub max 3) cardiac control centre/CCC primarily responsible situated in medulla oblongata of the brain controlled by the autonomic nervous system/ANS/under involuntary control at start of exercise sympathetic nerves increase heart rate/stimulation of SA node (caused by) muscle receptors/proprio-receptors/receptors in muscles detecting an increase in level of exercise chemoreceptors detecting changes in blood/muscle chemistry chemoreceptors detect increase in lactic acid/carbon dioxide levels
Rec 15 16 17 18 19 20 21 22 23	gulation of heart rate ural control) (sub sub max 3) cardiac control centre/CCC primarily responsible situated in medulla oblongata of the brain controlled by the autonomic nervous system/ANS/under involuntary control at start of exercise sympathetic nerves increase heart rate/stimulation of SA node (caused by) muscle receptors/proprio-receptors/receptors in muscles detecting an increase in level of exercise chemoreceptors detecting changes in blood/muscle chemistry chemoreceptors detect increase in lactic acid/carbon dioxide levels chemoreceptors detect decrease in oxygen/pH levels baroreceptors detecting an increase/change in blood pressure
Rec 15 16 17 18 19 20 21 22 23 (ho	gulation of heart rate ural control) (sub sub max 3) cardiac control centre/CCC primarily responsible situated in medulla oblongata of the brain controlled by the autonomic nervous system/ANS/under involuntary control at start of exercise sympathetic nerves increase heart rate/stimulation of SA node (caused by) muscle receptors/proprio-receptors/receptors in muscles detecting an increase in level of exercise chemoreceptors detecting changes in blood/muscle chemistry chemoreceptors detect increase in lactic acid/carbon dioxide levels chemoreceptors detect increase in oxygen/pH levels baroreceptors detecting an increase/change in blood pressure
Reg 15 16 17 18 19 20 21 22 23 (ho 24	gulation of heart rate ural control) (sub sub max 3) cardiac control centre/CCC primarily responsible situated in medulla oblongata of the brain controlled by the autonomic nervous system/ANS/under involuntary control at start of exercise sympathetic nerves increase heart rate/stimulation of SA node (caused by) muscle receptors/proprio-receptors/receptors in muscles detecting an increase in level of exercise chemoreceptors detecting changes in blood/muscle chemistry chemoreceptors detect increase in lactic acid/carbon dioxide levels chemoreceptors detect increase in oxygen/pH levels baroreceptors detecting an increase/change in blood pressure rmonal control) (sub sub max 2) adrenaline being released
Reg 15 16 17 18 19 20 21 22 23 (ho 24 25	gulation of heart rate ural control) (sub sub max 3) cardiac control centre/CCC primarily responsible situated in medulla oblongata of the brain controlled by the autonomic nervous system/ANS/under involuntary control at start of exercise sympathetic nerves increase heart rate/stimulation of SA node (caused by) muscle receptors/proprio-receptors/receptors in muscles detecting an increase in level of exercise chemoreceptors detecting changes in blood/muscle chemistry chemoreceptors detect increase in lactic acid/carbon dioxide levels chemoreceptors detecting an increase in oxygen/pH levels baroreceptors detecting an increase/change in blood pressure rmonal control) (sub sub max 2) adrenaline being released increasing strength of contraction of myocardium/stroke volume
Reg 15 16 17 18 19 20 21 22 23 (ho 24 25 26	gulation of heart rate ural control) (sub sub max 3) cardiac control centre/CCC primarily responsible situated in medulla oblongata of the brain controlled by the autonomic nervous system/ANS/under involuntary control at start of exercise sympathetic nerves increase heart rate/stimulation of SA node (caused by) muscle receptors/proprio-receptors/receptors in muscles detecting an increase in level of exercise chemoreceptors detecting changes in blood/muscle chemistry chemoreceptors detect increase in lactic acid/carbon dioxide levels chemoreceptors detecting an increase/change in blood pressure rmonal control) (sub sub max 2) adrenaline being released increasing strength of contraction of myocardium/stroke volume noradrenaline being released
Reg 15 16 17 18 19 20 21 22 23 (ho 24 25	gulation of heart rate ural control) (sub sub max 3) cardiac control centre/CCC primarily responsible situated in medulla oblongata of the brain controlled by the autonomic nervous system/ANS/under involuntary control at start of exercise sympathetic nerves increase heart rate/stimulation of SA node (caused by) muscle receptors/proprio-receptors/receptors in muscles detecting an increase in level of exercise chemoreceptors detecting changes in blood/muscle chemistry chemoreceptors detect increase in lactic acid/carbon dioxide levels chemoreceptors detecting an increase in oxygen/pH levels baroreceptors detecting an increase/change in blood pressure rmonal control) (sub sub max 2) adrenaline being released increasing strength of contraction of myocardium/stroke volume
Reg 15 16 17 18 19 20 21 22 23 (ho 24 25 26 27	gulation of heart rate ural control) (sub sub max 3) cardiac control centre/CCC primarily responsible situated in medulla oblongata of the brain controlled by the autonomic nervous system/ANS/under involuntary control at start of exercise sympathetic nerves increase heart rate/stimulation of SA node (caused by) muscle receptors/proprio-receptors/receptors in muscles detecting an increase in level of exercise chemoreceptors detecting changes in blood/muscle chemistry chemoreceptors detect increase in lactic acid/carbon dioxide levels chemoreceptors detecting an increase/change in blood pressure rmonal control) (sub sub max 2) adrenaline being released increasing strength of contraction of myocardium/stroke volume noradrenaline being released helping the spread of the electrical impulse from the SA node through the heart/stimulates SA node
Reg 15 16 17 18 19 20 21 22 23 (ho 24 25 26 27 (int	gulation of heart rate ural control) (sub sub max 3) cardiac control centre/CCC primarily responsible situated in medulla oblongata of the brain controlled by the autonomic nervous system/ANS/under involuntary control at start of exercise sympathetic nerves increase heart rate/stimulation of SA node (caused by) muscle receptors/proprio-receptors/receptors in muscles detecting an increase in level of exercise chemoreceptors detecting changes in blood/muscle chemistry chemoreceptors detect increase in lactic acid/carbon dioxide levels chemoreceptors detecting an increase/change in blood pressure rmonal control) (sub sub max 2) adrenaline being released increasing strength of contraction of myocardium/stroke volume noradrenaline being released helping the spread of the electrical impulse from the SA node through the heart/stimulates SA node
Reg 15 16 17 18 19 20 21 22 23 (ho 24 25 26 27 (int 28	gulation of heart rate ural control) (sub sub max 3) cardiac control centre/CCC primarily responsible situated in medulla oblongata of the brain controlled by the autonomic nervous system/ANS/under involuntary control at start of exercise sympathetic nerves increase heart rate/stimulation of SA node (caused by) muscle receptors/proprio-receptors/receptors in muscles detecting an increase in level of exercise chemoreceptors detecting changes in blood/muscle chemistry chemoreceptors detect increase in lactic acid/carbon dioxide levels chemoreceptors detect decrease in oxygen/pH levels baroreceptors detecting an increase/change in blood pressure rmonal control) (sub sub max 2) adrenaline being released increasing strength of contraction of myocardium/stroke volume noradrenaline being released helping the spread of the electrical impulse from the SA node through the heart/stimulates SA node rinsic control) (sub sub max 2) an increase in temperature (spreading up nerve impulses)
Reg 15 16 17 18 19 20 21 22 23 (ho 24 25 26 27 (int 28 29	gulation of heart rate ural control) (sub sub max 3) cardiac control centre/CCC primarily responsible situated in medulla oblongata of the brain controlled by the autonomic nervous system/ANS/under involuntary control at start of exercise sympathetic nerves increase heart rate/stimulation of SA node (caused by) muscle receptors/proprio-receptors/receptors in muscles detecting an increase in level of exercise chemoreceptors detecting changes in blood/muscle chemistry chemoreceptors detect increase in lactic acid/carbon dioxide levels chemoreceptors detecting an increase/change in blood pressure rmonal control) (sub sub max 2) adrenaline being released increasing strength of contraction of myocardium/stroke volume noradrenaline being released helping the spread of the electrical impulse from the SA node through the heart/stimulates SA node

b)	(Acquiring and Performing Movement Skills)
	Skill classification includes the continuum between simple and complex skills and the continuum between high and low organisation.
	Explain each of these two continua giving movement skill examples.
	Describe what is meant by gross motor abilities and psychomotor abilities.
	What are the characteristics of intrinsic and extrinsic methods of motivation?
	How would you use these methods to promote effective learning of movement skills?
	Explain each of these two continua giving movement skill examples.
	 (simple/complex) Simple skills have very little information to process/few decisions to make/few environmental influences and: Complex skills have a lot of information/decisions/predominantly perceptual.
	2 Identification of continua being a scale along which movement skills are placed according to the difficulty/amount of processing/decisions related to the skill
	 (High/low organisation) 3 Highly organised skills are difficult to break up into sub routines/parts/they are continuous skills/end of one sub-routine becomes the beginning of another and: Low organised skills can be split into sub-routines/parts easily/tend to be serial skills.
	4 Identification of continua being a scale along which skills are placed according to the make-up of their sub-routines/how well a skill can be broken down
	Describe what is meant by gross motor abilities and psychomotor abilities.
	5 Gross motor abilities relate to actual movement that is innate/genetic/natural/a potential/an innate movement.
	6 Psychomotor ability relates to the processing of information/initiation of movement (rather than actual movement) that is innate/genetic/natural/a potential.

What are the characteristics of intrinsic and extrinsic methods of motivation? How would you use these methods to promote effective learning of movement skills?
Sub max of 8 marks
(Characteristics of Intrinsic)7 Drive from within/internal to the performer/have own goals
8 Feelings of (emotional) enjoyment/satisfaction/feeling good/personal bests/pride.
9 Muscular sensuousness/enjoying the feeling of movement/kinaesthesis.
(Characteristics of extrinsic) 10 Drive by external processes/(tangible) rewards.
11 Comparisons/competition/want to copy role models
12 Pleasing others.
(Using intrinsic for effective learning)
13 Encouragement/positive reinforcement
14 Use goal setting to ensure success/goals that are achievable.
15 Measurement of performance/goals to show achievement.
16 Overuse of reward can lead to decrease in motivation/by not using extrinsic methods/rewards.
17 Making training and competition enjoyable/reducing importance of competition/event.
(Using extrinsic for effective learning)
18 Regular use of tangible rewards/prizes.
19 Use of praise/positive reinforcement. (do not give if given pt 3)
Give challenging goals with recognisable success criteria. (do not give if given pt 14)
21 Using desirable/effective role models TOTAL [13] KNOWLEDGE MARKS

Part two						
(c)	(Exe	ercise and Spor	t Phys	siology)		
	Ider			a method of evaluation for two of aerobic capacity, strength and fl		
	MAF	RK SCHEME (S	UB M/	-		
				(answers must be (if egs given, cre		a across the row) a synoptic marks)
	Iden	tification	Defi	nition	Meth	hod of evaluation
	1	Speed	2	how fast you can move part of your body/your whole body (eg sprinting)	3	20m/100m sprint
	4	Reaction time	5	time between a stimulus being detected and the first movement in response to it (eg racing start in swimming)	6	computer programmes/ ruler drop test
	7	Agility	8	combination of speed and coordination/ability of the body to change direction at speed (eg dodging/marking in netball)	9	Illinois agility run
	10	Balance	11	ability of the body to maintain equilibrium (can be static or dynamic) (eg skiing/beam work in gymnastics)	12	stalk stand/balance board
	13	Co- ordination	14	ability to put the relevant motor programmes in the right order to produce smooth/efficient movement (eg lay up in basketball)	15	alternate hand wall toss test
	16	Body composition	17	the relative amounts of fat mass /fat free mass in the body/% of body fat	18	skin fold callipers/underw ater weighing/ densitometry/ bioelectric impedance

A carefully planned training programme is required to improve a specific component of fitness.			
Describe what is meant by each of the following terms: macrocycles; mesocycles; microcycles. Discuss the benefits of periodisation in planning a training programme.			
MARK SCHEME (sub max 10)			
(macrocycles/mesocycles/microcycles)			
19 macrocycle as the long term/one year training block (will have its own objective)			
20 ensuring peak physical condition for the competition season			
21 mesocycle as the intermediate training block/between 1-4 months			
22 each with its own objective to help achieve the overall objective of the macrocycle			
23 increase strength/power/endurance			
24 microcycle as the short term training block/up to 4 weeks			
25 each block will have its own objective to help achieve the overall object of the			
mesocycle/macrocycle			
26 resistance training each week to ensure sufficient recovery and develop endurance strength			
(benefts of periodisation)			
27 splits training into specific blocks			
28 helps to ensure that an optimal physiological peak is reached at the correct time for an important competition eg Olympics/World Cup etc (if not given for pt 20)			
29 each block is designed to prepare a specific performance component/technique			
30 training is therefore split into smaller units to maintain motivation/avoid boredom/overtraining/fatigue			
31 double periodisation allows the performer to peak for a qualifying round and the championships			
32 before competitive season, athlete may use tapering			
33 tapering involves reducing the training to allow the body to achieve maximum energy stores prior to competition			
34 eg focus more on technique than developing fitness			
35 this would usually last between 1-3 weeks prior to competition.			
TOTAL KNOWLEDGE MARKS = [13]			

	AS AS	A2
force	motion Newton's Laws centre of mass	momentum impulse projectile motion levers
heart rate	control respiratory control	recovery aerobic capacity physiological adaptations to training ergogenic aids
	-	
	A2 A2	AS
componen	A2 A2	AS muscle fibres heart rate control exercise heart rate strengthening exercises

APPENDIX Suggested links – not intended to be exhaustive

	ng sporting examples identify the three main axes of rotation and e the angular analogues of Newton's Laws of Motion.	
-	lain how a performer uses the Law of Conservation of Angular nentum.	[13
(Axe	es of rotation) sub max 3	
4		
<u> </u>	Longitudinal (head to toe eg twist/spinning skater).	
2	Transverse (side to side eg somersault).	
3	Frontal (front to back eg cartwheel)	
(Ana	alogue of Newton) sub max 3	
4	(Newton 1) An object will continue to rotate with constant angular momentum unless acted upon by an external torque/moment of force.	
5	(Newton 2) The rate of change of angular momentum experienced by an object is proportional to the size of the torque/moment of force acting on it and takes place in the direction in which the torque acts.	
6	(Newton3) For every torque/moment of force that is exerted by one subject on another there is an equal and opposite torque exerted by the second subject on the first.	
(Co	nearvation of Angular Momontum) cub max 0	
	nservation of Angular Momentum) sub max 9	
7	Angular Momentum = Iw/moment of inertia x angular velocity.	
8	Moment of inertia is the body's resistance to rotate/change angular motion.	
9	Angular velocity is the rate of spin/rate of change of angle of a body.	
(sta	rt/take off)	
10	Generate angular momentum.	
11	By applying moment of force/torque to body.	
12	Large amount of inertia/parts of body long way from axis of rotation.	
13	Small angular velocity/rate of spin.	
15		
(dur	ing performance/flight)	
4.		
14	Reduce moment of inertia/bring parts of body towards axis of rotation.	
15	Increases angular velocity/rate of spin (eg more somersaults).	
16	Due to law of conservation of angular momentum.	
(just	before end/landing)	
17	Increase the number of inertia/move body parts away from axis of	
	rotation.	
18 19	rotation. Reduces angular velocity/rate of spin. Therefore more control at end of movement.	

(end	d/landing)	
20	Moment of force/torque applied to performer.	
 21	To eliminate angular momentum.	
	TOTAL KNOWLEDGE MAR	 RKS = [13]
 Syr	noptic links;	
T1	Axes of rotation – CM = Axis of rotation during flight	
	Newton's Laws (analogues) – Angular acceleration	
	Angular Momentum – Friction causing generation/cessation of AM	
	- reaction causing generation/cessation of AM	
	- forces applied outside line of CM	
T2	Newton's Laws (Analogues) – Newton's Laws of Motion.	
	Angular Momentum – Movement analysis of actions creating AM.	

(e)	(Psychology of Sport Performance)					
	The attributions given by performers for success and failure in sport can affect motivation to continue and to improve.Outline Weiner's model of attribution. Us this model to explain how attribution can affect motivation in sport					
	sport. When motivation is high and success is experienced, performers in sport are often described as being 'in the zone'. Describe and explain what is meant by the zone of optimal functioning.					
	Out	line Weiner's mode	el of attribution.			
	7 M	ARKS:				
	1	Drawing/identification unstable and inter		of the model/stab	le and	
			(Locus of Caus	ality)		
			Internal	External		
		Stable				
		Unstable				
	2	(Giving internal sta your control that a lasting (ability)				
	3 (Internal unstable) means intrinsic but changeable reasons (effort)					
	4	(External stable) n that are unchange			ntrol reasons	
	5	(External Unstable	e) means environm	ental but changea	able (luck)	
	(If a	bility/effort/task dif	ficulty/luck are ic	lentified give T1))	
	 (If ability/effort/task difficulty/luck are identified give T1) Use this model to explain how attribution can affect motivation in sport. (Demotivation) 6 If reasons for failure are internal stable/- learned helplessness is the belief that failure is inevitable/failure has been reinforced/can demotivate. (Motivation) 7 If reasons for success are internal/stable/mastery orientation - is 				essness is the ed/can de-	
		having high self-co motivation.				

8	If losing motivate through emphasis on unstable factors
9	If winning motivate through emphasis on internal factors
	escribe and explain what is meant by the zone of optimal nctioning.)
6 1	IARKS:
(zo	one of optimal functioning)
10	An emotional/affective response/enjoyment/satisfaction/fulfilment.
11	(Described as) peak flow experience.
12	Associated with the elite/very good performers/good performance/best of their ability
13	High level of confidence/sports confidence/self efficacy.
14	Is relaxed/lack of stress response/not anxious.
15	Ideal/optimal level of arousal of the performer/high level of motivation that is under control/high level of inner drive/self motivation/graph showing this
16	Performer has maximum concentration and effort/focussed
17	Appropriate attentional control/(often) narrow/internal attention/cue utilisation is good/right amount of cues.
18	Movements are automatic/little conscious control (synoptic link with motor programmes).
19	The more experienced/able the performer higher arousal is needed for ZOF
	TOTAL OF 13 KNOWLEDGE

LINKS	
T1: A/S > A/S	
Classification	
Types of practice	
Arousal/Reinforcement	
T1: A2 > A2	
Achievement motivation	
Stress and stress management	
Attentional control/Nideffer	
Emotional control/confidence/self efficacy	
T2: A/S > A2	
Classification > confidence/attentional control	
Ability > Personality achievement motivation	
Motivation > achievement motivation/Zone	
T2: A2 > A/S	
Attribution > Motivation	
Attribution > abilities	
Attribution > Operant conditioning	
Zone > Arousal/motivation	
Zone > motor programmes	

}	(Soc		Iltural focus)			
Part	One					
	(a)	(Co	ntemporary Studies in	Physical Edication)		
	(4)	(00)				
		13 n	narks: 1 mark for each	n response up to a maximum of 13		
			max 3	· · ·		
		Out	line what is meant by	the continuum from mass participation to		
		sporting excellence.				
		1	(continuum)	Line or range between extremes/a line along which		
				items blend into each other/a series of different items/a		
				imaginary scale/a line along which it is difficult to say		
				where one item becomes the next/a transition between		
				different concepts.		
		2	(mass participation)	Sport for all/taking part more important than		
				winning/taking part for recreation or fun or health and		
				fitness/lifetime sport/an inclusive concept/wide base of		
		3	(sporting excellence)	participation		
		3	(sporting excellence)	Elite performance/the best performers/winning		
				important/professional performances/a selective or exclusive concept		
		4	(narrow)	Mass participation narrows to sporting excellence		
		5	(increase/decrease)	Increase or decrease in things such as level of		
		J	(increase/decrease)			
				organisation or commitment or skill or eq		
		Exp		organisation or commitment or skill or eq concepts: Play, Physical Recreation and aracteristics and associated values.		
		Exp Spo	lain each of the three rt in terms of their cha	concepts: Play, Physical Recreation and aracteristics and associated values.		
		Exp Spo Cha	lain each of the three rt in terms of their cha racteristics of PLAY –	concepts: Play, Physical Recreation and aracteristics and associated values.		
		Exp Spo Cha	lain each of the three rt in terms of their cha racteristics of PLAY – (time)	concepts: Play, Physical Recreation and aracteristics and associated values. - sub max 2 time decided by participants/no set time/no time limits		
		Exp Spo Cha 6 7	lain each of the three rt in terms of their cha racteristics of PLAY – (time) (spontaneity)	concepts: Play, Physical Recreation and aracteristics and associated values. - sub max 2 time decided by participants/no set time/no time limits spur of moment/spontaneous/unplanned		
		Exp Spo Cha 6 7 8	lain each of the three rt in terms of their cha racteristics of PLAY – (time) (spontaneity) (who?)	concepts: Play, Physical Recreation and aracteristics and associated values. - sub max 2 time decided by participants/no set time/no time limits spur of moment/spontaneous/unplanned both children and adults play		
		Exp Spo Cha 6 7	lain each of the three rt in terms of their cha racteristics of PLAY – (time) (spontaneity)	concepts: Play, Physical Recreation and aracteristics and associated values. - sub max 2 time decided by participants/no set time/no time limits spur of moment/spontaneous/unplanned both children and adults play simple or low organisation/basic equipment/no set		
		Exp Spo Cha 6 7 8 9	lain each of the three rt in terms of their cha racteristics of PLAY – (time) (spontaneity) (who?) (organisation)	concepts: Play, Physical Recreation and aracteristics and associated values. - sub max 2 time decided by participants/no set time/no time limits spur of moment/spontaneous/unplanned both children and adults play simple or low organisation/basic equipment/no set numbers		
		Exp Spo Cha 6 7 8	lain each of the three rt in terms of their cha racteristics of PLAY – (time) (spontaneity) (who?)	concepts: Play, Physical Recreation and aracteristics and associated values. - sub max 2 time decided by participants/no set time/no time limits spur of moment/spontaneous/unplanned both children and adults play simple or low organisation/basic equipment/no set numbers space or boundaries decided by participants/no set		
		Exp Spo Cha 6 7 8 9 10	lain each of the three rt in terms of their cha racteristics of PLAY – (time) (spontaneity) (who?) (organisation) (space)	concepts: Play, Physical Recreation and aracteristics and associated values. - sub max 2 time decided by participants/no set time/no time limits spur of moment/spontaneous/unplanned both children and adults play simple or low organisation/basic equipment/no set numbers space or boundaries decided by participants/no set space or pitch/no space limits/no boundaries		
		Exp Spo Cha 6 7 8 9 10	lain each of the three rt in terms of their cha racteristics of PLAY – (time) (spontaneity) (who?) (organisation) (space) (option)	concepts: Play, Physical Recreation and aracteristics and associated values. - sub max 2 time decided by participants/no set time/no time limits spur of moment/spontaneous/unplanned both children and adults play simple or low organisation/basic equipment/no set numbers space or boundaries decided by participants/no set space or pitch/no space limits/no boundaries optional/choice/voluntary		
		Exp Spo Cha 6 7 8 9 10 11 12	lain each of the three rt in terms of their cha racteristics of PLAY – (time) (spontaneity) (who?) (organisation) (space) (option) (enjoyable)	concepts: Play, Physical Recreation and aracteristics and associated values. - sub max 2 time decided by participants/no set time/no time limits spur of moment/spontaneous/unplanned both children and adults play simple or low organisation/basic equipment/no set numbers space or boundaries decided by participants/no set space or pitch/no space limits/no boundaries optional/choice/voluntary enjoyable/fun/self-fulfilling/intrinsic value/childlike		
		Exp Spo Cha 6 7 8 9 10 10 11 12 13	lain each of the three rt in terms of their cha racteristics of PLAY – (time) (spontaneity) (who?) (organisation) (space) (option) (enjoyable) (rules)	concepts: Play, Physical Recreation and aracteristics and associated values. - sub max 2 time decided by participants/no set time/no time limits spur of moment/spontaneous/unplanned both children and adults play simple or low organisation/basic equipment/no set numbers space or boundaries decided by participants/no set space or pitch/no space limits/no boundaries optional/choice/voluntary enjoyable/fun/self-fulfilling/intrinsic value/childlike flexible or relaxed or few rules/rules by agreement		
		Exp Spo Cha 6 7 8 9 10 10 11 12 13 14	lain each of the three rt in terms of their cha racteristics of PLAY – (time) (spontaneity) (who?) (organisation) (space) (option) (enjoyable) (rules) (non-serious)	concepts: Play, Physical Recreation and aracteristics and associated values. - sub max 2 time decided by participants/no set time/no time limits spur of moment/spontaneous/unplanned both children and adults play simple or low organisation/basic equipment/no set numbers space or boundaries decided by participants/no set space or pitch/no space limits/no boundaries optional/choice/voluntary enjoyable/fun/self-fulfilling/intrinsic value/childlike flexible or relaxed or few rules/rules by agreement non serious/non-productive/result not important		
		Exp Spo Cha 6 7 8 9 10 11 12 13 14 Valu	lain each of the three rt in terms of their cha racteristics of PLAY – (time) (spontaneity) (who?) (organisation) (space) (option) (enjoyable) (rules) (non-serious) ues of PLAY – sub max	concepts: Play, Physical Recreation and aracteristics and associated values. - sub max 2 time decided by participants/no set time/no time limits spur of moment/spontaneous/unplanned both children and adults play simple or low organisation/basic equipment/no set numbers space or boundaries decided by participants/no set space or pitch/no space limits/no boundaries optional/choice/voluntary enjoyable/fun/self-fulfilling/intrinsic value/childlike flexible or relaxed or few rules/rules by agreement non serious/non-productive/result not important x 2		
		Exp Spo Cha 6 7 8 9 10 11 12 13 14 Valu 15	lain each of the three rt in terms of their cha racteristics of PLAY – (time) (spontaneity) (who?) (organisation) (option) (enjoyable) (rules) (non-serious) ues of PLAY – sub max (leadership)	concepts: Play, Physical Recreation and aracteristics and associated values. - sub max 2 time decided by participants/no set time/no time limits spur of moment/spontaneous/unplanned both children and adults play simple or low organisation/basic equipment/no set numbers space or boundaries decided by participants/no set space or pitch/no space limits/no boundaries optional/choice/voluntary enjoyable/fun/self-fulfilling/intrinsic value/childlike flexible or relaxed or few rules/rules by agreement non serious/non-productive/result not important x 2 leadership/opportunity to be in charge		
		Exp Spo Cha 6 7 8 9 10 11 12 13 14 Valu 15 16	lain each of the three rt in terms of their cha racteristics of PLAY – (time) (spontaneity) (who?) (organisation) (space) (option) (enjoyable) (rules) (non-serious) Jes of PLAY – sub max (leadership) (cognitive)	concepts: Play, Physical Recreation and aracteristics and associated values. - sub max 2 time decided by participants/no set time/no time limits spur of moment/spontaneous/unplanned both children and adults play simple or low organisation/basic equipment/no set numbers space or boundaries decided by participants/no set space or pitch/no space limits/no boundaries optional/choice/voluntary enjoyable/fun/self-fulfilling/intrinsic value/childlike flexible or relaxed or few rules/rules by agreement non serious/non-productive/result not important x 2 leadership/opportunity to be in charge cognitive skills/creativity		
		Exp Spo Cha 6 7 8 9 10 11 12 13 14 Valu 15 16 17	lain each of the three rt in terms of their cha racteristics of PLAY – (time) (spontaneity) (who?) (organisation) (space) (option) (enjoyable) (rules) (non-serious) ues of PLAY – sub max (leadership) (cognitive) (pretence)	concepts: Play, Physical Recreation and aracteristics and associated values. - sub max 2 time decided by participants/no set time/no time limits spur of moment/spontaneous/unplanned both children and adults play simple or low organisation/basic equipment/no set numbers space or boundaries decided by participants/no set space or pitch/no space limits/no boundaries optional/choice/voluntary enjoyable/fun/self-fulfilling/intrinsic value/childlike flexible or relaxed or few rules/rules by agreement non serious/non-productive/result not important x 2 leadership/opportunity to be in charge cognitive skills/creativity use of imagination/role play for later life/master reality		
		Exp Spo Cha 6 7 8 9 10 11 12 13 14 Valu 15 16	lain each of the three rt in terms of their cha racteristics of PLAY – (time) (spontaneity) (who?) (organisation) (space) (option) (enjoyable) (rules) (non-serious) Jes of PLAY – sub max (leadership) (cognitive)	concepts: Play, Physical Recreation and aracteristics and associated values. - sub max 2 time decided by participants/no set time/no time limits spur of moment/spontaneous/unplanned both children and adults play simple or low organisation/basic equipment/no set numbers space or boundaries decided by participants/no set space or pitch/no space limits/no boundaries optional/choice/voluntary enjoyable/fun/self-fulfilling/intrinsic value/childlike flexible or relaxed or few rules/rules by agreement non serious/non-productive/result not important x 2 leadership/opportunity to be in charge cognitive skills/creativity use of imagination/role play for later life/master reality social skills/making friends/communication/co-		
		Exp Spo 6 7 8 9 10 11 12 13 14 Valu 15 16 17 18	lain each of the three rt in terms of their cha racteristics of PLAY – (time) (spontaneity) (who?) (organisation) (space) (option) (enjoyable) (rules) (non-serious) ues of PLAY – sub max (leadership) (cognitive) (pretence) (social)	concepts: Play, Physical Recreation and aracteristics and associated values. - sub max 2 time decided by participants/no set time/no time limits spur of moment/spontaneous/unplanned both children and adults play simple or low organisation/basic equipment/no set numbers space or boundaries decided by participants/no set space or pitch/no space limits/no boundaries optional/choice/voluntary enjoyable/fun/self-fulfilling/intrinsic value/childlike flexible or relaxed or few rules/rules by agreement non serious/non-productive/result not important x 2 leadership/opportunity to be in charge cognitive skills/creativity use of imagination/role play for later life/master reality social skills/making friends/communication/co-operation/team work/respect of others		
		Exp Spo Cha 6 7 8 9 10 11 12 13 14 Valu 15 16 17	lain each of the three rt in terms of their cha racteristics of PLAY – (time) (spontaneity) (who?) (organisation) (space) (option) (enjoyable) (rules) (non-serious) ues of PLAY – sub max (leadership) (cognitive) (pretence)	concepts: Play, Physical Recreation and aracteristics and associated values. - sub max 2 time decided by participants/no set time/no time limits spur of moment/spontaneous/unplanned both children and adults play simple or low organisation/basic equipment/no set numbers space or boundaries decided by participants/no set space or pitch/no space limits/no boundaries optional/choice/voluntary enjoyable/fun/self-fulfilling/intrinsic value/childlike flexible or relaxed or few rules/rules by agreement non serious/non-productive/result not important x 2 leadership/opportunity to be in charge cognitive skills/creativity use of imagination/role play for later life/master reality social skills/making friends/communication/co- operation/team work/respect of others emotional skills/moral skills/coping with difficulty/right		
		Exp Spo Cha 6 7 8 9 10 11 12 13 14 Valu 15 16 17 18 19	lain each of the three rt in terms of their cha racteristics of PLAY – (time) (spontaneity) (who?) (organisation) (space) (option) (enjoyable) (rules) (non-serious) res of PLAY – sub max (leadership) (cognitive) (pretence) (social) (emotional/moral)	concepts: Play, Physical Recreation and aracteristics and associated values. - sub max 2 time decided by participants/no set time/no time limits spur of moment/spontaneous/unplanned both children and adults play simple or low organisation/basic equipment/no set numbers space or boundaries decided by participants/no set space or pitch/no space limits/no boundaries optional/choice/voluntary enjoyable/fun/self-fulfilling/intrinsic value/childlike flexible or relaxed or few rules/rules by agreement non serious/non-productive/result not important x 2 leadership/opportunity to be in charge cognitive skills/creativity use of imagination/role play for later life/master reality social skills/making friends/communication/co- operation/team work/respect of others emotional skills/moral skills/coping with difficulty/right and wrong/accept defeat/fair play/not cheating		
		Exp Spo Cha 6 7 8 9 10 11 12 13 14 Valu 15 16 17 18 19 20	lain each of the three rt in terms of their cha racteristics of PLAY – (time) (spontaneity) (who?) (organisation) (space) (option) (enjoyable) (rules) (non-serious) ues of PLAY – sub max (leadership) (cognitive) (pretence) (social) (emotional/moral) (physical)	concepts: Play, Physical Recreation and aracteristics and associated values. - sub max 2 time decided by participants/no set time/no time limits spur of moment/spontaneous/unplanned both children and adults play simple or low organisation/basic equipment/no set numbers space or boundaries decided by participants/no set space or pitch/no space limits/no boundaries optional/choice/voluntary enjoyable/fun/self-fulfilling/intrinsic value/childlike flexible or relaxed or few rules/rules by agreement non serious/non-productive/result not important x 2 leadership/opportunity to be in charge cognitive skills/creativity use of imagination/role play for later life/master reality social skills/making friends/communication/co- operation/team work/respect of others emotional skills/moral skills/coping with difficulty/right and wrong/accept defeat/fair play/not cheating physical skills/motor skills/body management		
		Exp Spo Cha 6 7 8 9 10 11 12 13 14 Valu 15 16 17 18 19	lain each of the three rt in terms of their cha racteristics of PLAY – (time) (spontaneity) (who?) (organisation) (space) (option) (enjoyable) (rules) (non-serious) res of PLAY – sub max (leadership) (cognitive) (pretence) (social) (emotional/moral)	concepts: Play, Physical Recreation and aracteristics and associated values. - sub max 2 time decided by participants/no set time/no time limits spur of moment/spontaneous/unplanned both children and adults play simple or low organisation/basic equipment/no set numbers space or boundaries decided by participants/no set space or pitch/no space limits/no boundaries optional/choice/voluntary enjoyable/fun/self-fulfilling/intrinsic value/childlike flexible or relaxed or few rules/rules by agreement non serious/non-productive/result not important x 2 leadership/opportunity to be in charge cognitive skills/creativity use of imagination/role play for later life/master reality social skills/making friends/communication/co- operation/team work/respect of others emotional skills/moral skills/coping with difficulty/right and wrong/accept defeat/fair play/not cheating		

Cha	racteristics of PHYSIC	CAL RECREATION – sub max 2
23	(s&f)	limited skill or fitness
24	(organisation)	limited organisation/no officials
25	(rules)	flexible rules/NGB rules don't need to be followed
26	(competition)	limited competition
27	(enjoyable)	enjoyable/taking part more important than winning/non-
		serious/low level of commitment
28	(equipment)	basic equipment/no specialist clothing/inexpensive
29	(availability)	available to all/everyone
30	(time)	time flexible or decided by agreement/free time
31	(amateur)	amateur/voluntary/choice/pre-occupation/hobby
32	(space)	space or place flexible or decided by agreement
		REATION – sub max 2
33	(skill)	become more skilful or competent
34	(h & f)	improved health or fitness or well being
35	(relaxation)	relaxation/stress relief/escape from pressure
36	(appearance)	improve body shape or appearance or image
37	(social)	social element or to meet people/friendships
38	(self)	self-fulfilment/spiritual development/improved self
		esteem or confidence/self realisation/intrinsic reward
	racteristics of SPORT	
39	(rules)	rules/NGBs/organised/structured/officials
40	(competitive)	competitive/leagues/competitions/serious
41	(commitment)	commitment/dedication/determination/effort/endeavour/
		training
42	(skill)	skill/prowess/fitness/high level/elite/tactics
43	(time)	strict time limits/set time
44	(behaviour)	sportsmanship/fair play/gamesmanship
45	(chance)	with element of chance
46	(equipment)	specialist equipment or specialist kit
47	(space)	set space or place/fixed boundaries/purpose built facilities
48	(commercialism)	sponsorship/media
		coverage/commercialism/spectatorism
	ies of SPORT – sub m	
49	(intrinsic)	intrinsic rewards or values/satisfaction/personal
		fulfilment/wanting to be the best
50	(extrinsic)	extrinsic rewards or values/winning or outcome
		important/for job/professional/for
		money/fame/recognition

Part t	wo	Ans	wer either (b) or (c)			
	(b)		torical Studies in Physic	al Education)		
			-			
		13 m	harks: 1 mark for each re	esponse up to a maximum of 13		
				that led to sporting excellence in late		
				chools. Your discussion should include		
		refei	rence to opportunity and	I provision for sports and games.		
		0				
			ortunity – sub max 6			
		1	(time)	significant time/boarding influence		
		2	(money)	endowments/regular income/old boys' subscriptions		
		3	(money)	fees/fee paying schools/fees used to improve provis		
		4	(regularity)	regularity of play/playing regularly increased standa		
		5	(inter-house)	inter-House games/house teams/importance of house	se	
		6	(inter-school)	matches inter-school games/annual fixtures v other major pul	blio	
		0	(Inter-school)	schools/'network' of public schools	DIIC	
		7	(community)	fixtures with local clubs/links with the community/fixt		
		'	(community)	against prestigious clubs eg annual matches v MCC		
		8	(compulsion)	compulsion/daily games compulsory in many public		
			vision – sub max 6		3010013	
		9	(facilities)	specialist facilities/swimming baths/rackets or fives	or squash	
		Ŭ		or lawn tennis courts	or oquuori	
	10 (facilities)		(facilities)	land/buying of land for pitches/extensive playing		
			fields/facilities often used by major association		special	
				occasions and competitions		
		11 (expertise – Obs & 6 th) employment of Oxbridge 'blues'/Oxbridge returnees				
				the Gentleman Amateur/skilled old boys/Sixth Form		
		12	(expertise - masters)	masters joined in team games/played squash or five	es or	
				tennis with or against boys		
		13	(expertise – pros)	employment of lower class professionals/games		
				professionals or cricket or racquets coaches		
		14	(competition)	championships/big competitions/training for big com		
		15	(athletics)	Athletics Sports Days/schools often first to hold athle	etic sports	
				meetings in towns		
			er relevant factors – sub			
		16	(organisation)	highly organised games programmes		
		17	(headmasters)	Headmasters' encouragement/support eg Dr Arnold	of Rugby	
				School		
		18	(role Models)	impact of games masters or assistant masters or six		
				as role models or heroes/eg Brooke in Tom Brown's	6	
		10		Schooldays/Old Boys as heroes or role models		
		19	(rational sport)	influence of rational sport	liaby	
		20	(rational sport)	rules and NGBs/made regularity and fixtures more li	ikely	
		21	(self discipline)	using games to achieve social control or discipline	lucation	
		22	(attitude)	attitude/playing games as part of a well balanced ec	lucation	
		22	(athlaticiam/values)	encouraged/commitment	o that	
		23	(athleticism/values)	Moral integrity/physical endeavour/leadership (value lead to excellence)	รแลเ	
					10 1403	
				TOTAL KNOWLEDGE MAR	NO = [13]	

T1 – links within AS Contemporary Studies
SE – sporting excellence MP = mass participation
• There are other concepts within Field of Study eg leisure, physical and outdoor education and outdoor recreation.
• Both parts of fig 1 can be seen in relations to the performance pyramid (with mass participation at base and sporting excellence at apex).
Discrimination affects MP and SE
• Minority groups eg women or people with disabilities are likely to suffer most from discrimination/are least likely to a) take part b) achieve excellence.
Media covers SE not MP
High level male sport dominates coverage
Sport can be linked to American Dream
Sport can be linked to sponsorship and big business
Sport can sometimes be linked to deviance and unethical behaviour
 Organisation and Administration:
Special interest groups eh WSF and DSE help people onto and along the continuum.
Sport England concentrates on mass participation.
UK Sport concentrates on sporting excellence.
T1 – links within A2 Historical Studies
Gender discrimination/minimal opportunity and provision for females.
Influence of societal changes on excellence in public schools eg the civilising process in society/improved transport/increase law and order etc.
 Nineteenth century public school developments/transitions show same 'progress' as transitions from popular recreation to rational recreation.
 Note different objectives, content and methodology between boys public schools and state elementary schools.

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T2 – links between AS (conten	nporary) and A2 (I	nistorical)						
 stages of development in 0 Opportunity and provision provision for MP and SE to Sports colleges (today) ca the public schools of late 0 	 Stages of development in C19th public schools. Opportunity and provision in C19th public schools links to opportunity and provision for MP and SE today. Sports colleges (today) cater for both mass participation and excellence as did the public schools of late C19th (in theory). Other links between sports colleges today and public schools of late C19th 							
Specialist Sports Colleges (today)		Public Schools (late C19th)						
impact of flexible time table/more time for sport and PE	time	impact of boarding						
impact of lottery funding/per capita allowance	money	impact of fees & endowments						
each pupil does GCSE PE/each pupil must satisfy minimum time requirement	choice	daily games often compulsion						
regular inter house or inter school fixture/promotion to county or area teams	competitions	regular inter house or inter school fixture or other fixtures/Sports Days						
cater for both mass participation and excellence	ability	catered (in theory) for both mass participation and excellence						
often plentiful excellent staffing ratios/large number of specialist staff/excellent staff expertise/excellent coaching	equipment coaches	extensive professionals in cricket or racquets/assistant masters as games coaches/Oxbridge returnees as role models						
often excellent/sometimes surprisingly average/most have plans for improvement	often excellent/sometimes surprisingly average/mostfacilities/spaceextensive/specialist facilities/lots of space							
usually have minibuses which are widely available for sporting fixtures	transport	money made available for hiring buses and catching trains						

(c)	(Comparative studies in Physical Education)							
	for	and Colleges in the USA help to prepare performers						
	8 marks sub max							
	1	(Excellence)	Centres of sport excellence					
	2	(Scholarship)	Best players receive sports scholarship into College					
	3	(Coach)	Specialist coach employed					
	4	(Coach)	Hire and fire contract/incentive to produce talent/excellence					
	5	(Professional)	High School/College sport is a reflection of the professional game					
	6	(Standard)	Sport is of high standard/high level/high status					
	7	(Specialisation)	Student/student athlete will focus on one sport					
	8	(Commercialism)	College sport is run as a business					
	9	(Facilities Stadium)	Matches/competitions played in Stadia					
	10	(Facilities equipment)	High quality/professional standard of equipment					
	11	(Facilities Medical)	Availability of medical services/physiotherapy/medicine/surgery					
	12	(Media)	Media gives College sport high profile/media attraction					
	13	(Lombardianism)	Lombardian/win ethic is instilled Lombardian/win ethic at School/College					
	14	(Pro-draft)	Pro-draft/clubs sign players from Colleges					

	Sport in France	(INSEP) or the Austr	s Institute (UKSI) with alian Institute of Spo at will help the perform	
		UKSI	INSEP	AIS
Ain	ns			
15	(Excellence)	All aim to promote sp schools' for sport	oorting excellence/AIS	perceived as 'finishing
16	(Elite)	international level	t/elite sportsmen and v	•
17	(Win ethic)	Institutes aim to prod	luce winning teams at i	nternational level
18	(Ethics)	Strong code of sporti	ing ethics across all Ins	stitutes
Org	ganisation			
19	· · · ·	4 Home County Institutes separate management	INSEP serves the whole of France	AIS serves the whole of Australia
20	(Network cultures)	Network centres eg Bath/Loughborough	Specialist Centres eg Font Romeu/ CREPS	Each Institute independent/ autonomous/ equal
21	(Control)	Central Service Team/English Institute London Service Team	Focus/major centre in Paris/centralised	status. Minimum of one Institute per state
22	(Accountability)	To UK Sport	National Olympic and Sports Committee	National Elite Sports Council/Government
23	(Funding)	UK Sport/Lottery/ 2012 Govt funding in run up to the Olympics	Central/Government funding	Australian Sports Commission (ASC) Government funding
24	(Links)	Links with National Governing Body	Links with Sporting Federations	Links with clubs/schools/regional squads
	ovision	1		
25	Multi-sports		nent across a broad rar	
	Medical oport	Provide medical serv		
27	I	Expertise in sports related science	Specialises in sports science	Expertise in sports related science
28	Education	Lifestyle career advice/Administers ACE UK/education for post sport career/vocational advice	INSEP delivers academic/ professional training	Athletic Career Education (ACE programme)/athletes given vocational opportunities
29	Facilities	High quality facilities in all centres eg (gymnastics in Lillishall)	High quality on site/specialist centres eg (Font Romeu)	High quality in specific centres/some without facilities on site/some used as a resource eg (VIS)

30 Natural facilities		Limited scope for natural facilities within country	Advantage of high altitude/Alpine facilities for Winter Olympics within country	Desert Institute of Sport/climate is a significant advantage		
31	Coaching	High quality specialist coaching	High quality specialist coaching/ Winter Olympics	High quality specialist coaching/on line coaching eg from VIS		
32	Finance distribution	Grants to aid performance/3 levels of grant given to top performers/ Governing Body can apply for cash	Government subsidy for training needs/full grant aid to Olympic athletes	Financial assistance given to all Institute athletes		
				WLEDGE MARKS = [13]		
			TOTAL KNO			
	Examples of T USA High Sch	1 links ools and Colleges				
	Little League S Dominance of					
		night basketball League	s/Community Provision	1		
		participation policy		·		
		student athletes				
	Examples of T	2 links				
USA High Schools and Colleges with UK equivalent						
	Sports College	<u>ام</u>				
		orts development eg PD	Ms. SSCos and PLT			
	Academies of					
		t courses at University				
	T1 links INSEF	,				

INSEP	AIS
Centralised operation	Decentralised operation
Centre for Sports Education	ASC operation
Selects elite athletes	ASC also responsible for mass participation policy
Determines which sports will qualify for INSEP attention	Distance is a problem in Australia. Therefore some online coaching
Has responsibility for development of French sport	Links with Nationalism and political policy
Networks with over 40 countries	Sport has strong links with culture eg obsession
Closely linked with Nationalism and economic plan first designed by de Gaulle	ACE programme is linked closely with schools eg Sports Person in Schools Project
Clubs and Regional Representation also p Other strategies to develop excellence fou	
UNSS, Sports Section Primary Sports Schools	Sports Linkage scheme in schools is first part of 'Progression Pathway'

Banded criteria for synoptic assessment

16 - 19	 A comprehensive response: Comprehensive knowledge has been consistently and clearly linked to practical performance. Relevant links and connections between and within study areas have been made successfully. Responses at the top of this level will demonstrate sound analytical and evaluative skills. There is evidence of well-argued, independent opinion and judgements supported by sound examples. Technical and specialist vocabulary is used accurately.
11 - 15	 The Quality of Written Communication is generally fluent with few errors. A competent answer: Substantial knowledge has been linked to practical performance and the majority of examples will be well considered. Relevant links between and within subject areas have been made with some success. Evidence of sound analysis is apparent. Independent opinions and judgements will be present but towards the better of this level, not always supported by sound avappade.
	 bottom of this level, not always supported by sound examples. Technical and specialist vocabulary is used with some accuracy. The Quality of Written Communication is generally fluent with few errors.
6 - 10	 A straightforward answer: There will be evidence that some knowledge has been linked to practical performance. Connections are made between and within study areas but at the bottom of this level, links will be tenuous. Analysis will be limited and restricted to the obvious. Opinion and judgement will be unsupported. Technical and specialist vocabulary is used with limited success. The Quality of Written Communication lacks fluency and there will be errors.
0 - 5	 A limited answer: There will be limited knowledge with few links to practical performance. Connections within and between study areas rarely made. Opinion and judgement almost entirely absent. Little or no attempt to use technical and specialist vocabulary at the bottom of this level. Errors in Quality of Written Communication will be intrusive.

Grade Thresholds

Advanced GCE (Subject) (Aggregation Code(s)) January 2008 Examination Series

Unit Threshold Marks

Unit		Maximum Mark	Α	В	С	D	E	U
2562	Raw	60	44	39	34	29	25	0
	UMS	120	96	84	72	60	48	0
2563	Raw	45	34	31	28	25	23	0
	UMS	90	72	63	54	45	36	0
2565	Raw	45	29	26	23	20	17	0
	UMS	90	72	63	54	45	36	0
2566	Raw	60	48	44	40	36	32	0
	UMS	120	96	84	72	60	48	0

Specification Aggregation Results

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

	Maximum Mark	A	В	C	D	E	U
3875	300	240	210	180	150	120	0
7875	600	480	420	360	300	240	0

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

	A	В	С	D	E	U	Total Number of Candidates
3875	9.08	28.44	52.04	80.94	96.97	100	661
7875	7.14	29.46	60.71	89.29	97.32	100	112

773 candidates aggregated this series

For a description of how UMS marks are calculated see: <u>http://www.ocr.org.uk/learners/ums_results.html</u>

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

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