

# GCE

## **Physical Education**

Advanced Subsidiary GCE

Unit G453: Principles and concepts across different areas of Physical Education

### Mark Scheme for June 2011

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	estion nber	Expected An	swer	Marks
Sec	tion A	- Historical St	udies (Option A1)	
1	(a)	Explain the i of young peo Describe thre	mpact of teachers' industrial action on the participation ople in physical activity in the 1970s and 1980s. ee positive impacts of the National Curriculum for ication in state schools today.	[5]
phy	sical a		achers' industrial action on the participation of young peo 970s and 1980s.	ple in
	max 2		Deduced extre extributer estivity which reduced resticingti	an (in
1	(less	provision)	Reduced extra-curricular activity which reduced participation schools) or reduced opportunity or provision (for physical a or reduced Saturday fixtures	
2	(lifetir	ne sport)	(potential) impact on lifelong involvement (in physical activ young people less likely to be inspired by (role model) PE	
3	(com	munity)	Increased community or club participation (due to reduced provision)	school
4	(non-	specialists)	Fewer non-specialist staff helping with extra-curricular prog	gramme
stat		three positive ols today.	impacts of the National Curriculum for Physical Education	on in
5		dards)	Higher standards/clear national standards/ progress (due t assessment)	0
6	(cons	istency)	A consistent experience wherever a child goes to school/s offered in all schools/easy transfer between schools	ame
7	(balaı	nce)	A balanced PE experience	
8		l rights)	Learners gain the right to certain content	
9		cipation)	Leads to great likelihood of lifelong participation	
10	(adap	otation)	Schools can adapt the curriculum to suit themselves or the strengths	eir
11	(supp		Support provided (especially to non-specialist teachers)	
12	(varie	ety/skills)	Variety or broad range of skills developed/thinking or analy social skills developed/accept examples of skills or values fair play or integrity or independence or problem solving / experiencing different roles e.g. leader or official	
13	(time)	)	Protected time/government targets/5 hour offer	
		being)	Stress relief / increase in confidence / healthy lifestyle	

Compulsory on its own = TOO VAGUE

Que Num	stion nber	Expected Answer		Marks
	<ul> <li>(b) Contrast the pre-industrial social and cultural factors relating to popular recreation with the post-industrial social and cultural factors relating to rational recreation.</li> <li>5 marks for 5 of: <u>need both pre and post factor for each mark</u></li> </ul>			
		Pre-industrial factors	Post-industrial factors	
1	Seas	onal time/Agricultural	Machine time/Industrial (lifestyle) / reg	ular
	(lifest	yle)/irregular		
2	Limite	ed transport or communication	Improved transport or communication	
3	(wide	spread) illiteracy	(increased) literacy/business or admin skills	istrative
4		n difficult or lifestyle/Uncivilised	(more) civilised lifestyle/(More)	
	•	ety)/limited law and order/limited	civilised/increased law and order/polic	e system
	polici	ng system/army used to keep peace	/ the influence of RSPCA	
5	Feud	Feudal system/two-class society (emergence of new) middle class/th society		e class
6	Lack	of or limited or low technology	More advanced or improved technolog	ју

	(c)	schools	he comparatively low status of lawn tennis in public at the end of the nineteenth century and possible barriers to tion in tennis by young people today.
		5 marks f	or 5 of: 3 for explanation of comparatively low status
Law	n tenn		nparatively low status because:
1			courts took up a comparatively large amount of space (which could arguably be better used for a larger numbers of boys)
2	(man	liness)	the game did not encourage or require manliness or courage (as was fashionable at the time) or physical endeavour
3	•	work/ rship)	the game did not encourage or require teamwork or co-operation or develop leadership (which were thought to be an essential aspect of games at the time)
4	(girls)		Lawn tennis had a reputation as a game for girls/the boys' sisters played it
5	(inver	ntion)	Lawn tennis was a new invention (and was treating with some scepticism or suspicion)
6	(majo game	or team s)	games such as cricket or football/rugby had highest status or held pride of place
		arriers to from follow	participation in tennis by young people today.
7	(finan		Lack of money <b>to buy or for</b> specialist kit or equipment or for club membership or for hiring of facilities/difficulty or cost of maintaining courts to suitable standard in schools
8	(coac	hing)	Specialist teaching or coaching required/lack of specialist coaches
9	(diffic	ult)	A (comparatively) difficult game to play/not easy to pick up a racquet and be able to play/more difficult than eg football or badminton
10	(time)	)	Lack of time to play/pressure from other activities or commitments/ summer game so limited time available in schools (in summer term) / often not played (much) in schools
11	(trans		Unable to get to courts or club/lack of transport
12	(facili	ties/	Poor quality of or lack of courts/(in schools) tennis uses large amount of
	space	e)	space for (relatively small) numbers occupied/pressure on court space for car parks (or equivalent)
13	(weat	her)	Unpredictability of or poor (British) weather
14	(class	5)	(perceived to be) middle class game / elitist

Question Number	Expected Answer	Marks
(d)*	(d)*       Discuss the influence of public schools on the development of bathing and swimming at different stages during the nineteenth century. Evaluate how nineteenth century social and cultural factors continue to impact on participation and performance in bathing and swimming today.         Level 4: - a comprehensive answer       [f]         •       detailed knowledge & excellent understanding         •       detailed analysis and excellent critical evaluation         •       well-argued, independent opinion and judgements which are well supported by relevant practical examples         •       very accurate use of technical and specialist vocabulary         •       high standard of written communication throughout.         Discriminators from L3 are likely to include:       •         •       detailed knowledge and excellent understanding of all aspects of the question         •       the three stages of public school development are discussed successfully         •       effective evaluation of the factors that affect both participation and performance in bathing today         •       insightful comment/understanding of how the past affects the present         •       good knowledge & clear understanding         •       good knowledge & clear understanding         •       good analysis and critical evaluation         •       independent opinions and judgements will be present but may not always be supported by relevant practical examples	[20]
	Level 4: – a comprehensive answer	[18-20]
	detailed knowledge & excellent understanding	
	detailed analysis and excellent critical evaluation	
	well-argued, independent opinion and judgements which are well	
	•	
	high standard of written communication throughout.	
	Discriminators from L3 are likely to include:	
	detailed knowledge and excellent understanding of all aspects of	
	the three stages of public school development are discussed	
	•	
	• •	
	sound structure and balance between parts of the question	
	Level 3: – a competent answer	[13-17]
	Discriminators from L2 are likely to include:	
	<ul> <li>public school development (not necessarily each stage) discussed with some success</li> </ul>	
	<ul> <li>competent evaluation of the factors that impact on participation and/or performance in bathing today</li> </ul>	
	<ul> <li>some understanding of how the past affects the present</li> </ul>	
	<ul> <li>an attempt at structuring/answering the question with balance between parts of the question</li> </ul>	

Level 2: – a limited answer	[8-12]
Iimited knowledge & understanding	
<ul> <li>some evidence of analysis and critical evaluation</li> </ul>	
<ul> <li>opinion and judgement given but often unsupported by relevant practical examples</li> </ul>	
technical and specialist vocabulary used with limited success	
written communication lacks fluency and contains errors.	
Discriminators from L1 are likely to include:	
<ul> <li>limited knowledge and understanding of some aspects of the question</li> </ul>	
<ul> <li>an attempt has been made to discuss the influence of public schools with limited success</li> </ul>	
an attempt has been made to evaluate the factors that impact on	
participation and/or performance today but with limited success	
• an attempt at structuring/answering the question but not necessarily with balance between parts of the question	
 Level 1: – a basic answer	[0-7]
basic knowledge & little understanding	
little relevant analysis or critical evaluation	
<ul> <li>little or no attempt to give opinion or judgement</li> </ul>	
<ul> <li>little or no attempt to use technical and specialist vocabulary</li> </ul>	
errors in written communication will be intrusive.	
At L1 responses <u>are likely</u> to:	
<ul> <li>demonstrate basic knowledge and understanding of some aspects of the question</li> </ul>	
demonstrate basic discussion of the influence of public schools	
• demonstrate little or no attempt at evaluating the factors that impact on participation and/or performance today	

	Juneted)	Is: on the development of bathing and swimming at different
	ges during the ninetee	
		rutality)/beginning of nineteenth century:
1	(pop rec)	Informal bathing (in natural facilities)
		like popular recreation / fun
		<ul> <li>use of rivers or ponds/river as natural playground</li> </ul>
2	(adopted)	Brought to schools by boys who had swum
		• (informally) at home/adopted from activity pursued at home
3	(recreation/survival/	(Motives as for popular recreation) survival or health
	health)	Headmasters desperate to keep boys safe
4	(competition)	Informally competitions
		<ul> <li>arranged races by boys themselves</li> </ul>
5	(evaluative point)	Did have impact on development but (arguably) less so than public
		provision
Stag		/mid nineteenth century:
6	(rationalisation)	More regular
		more regulated or structured
7	(therapeutic)	Considered beneficial or therapeutic
		part of healthy lifestyle
8	(lessons)	Swimming lessons / some teaching
		need to keep boys safe
9	(competition)	Inter-house competitions
		ate nineteenth century:
10	(technical)	Technical development/specialist facilities
		eg diving boards or changing huts
11	(teachers/	Specialist swimming teachers or masters
	attendants)	swimming attendants to ensure safety
12	(competition)	Galas and competitions
		inter-house and inter school competitions
13	(Ducker)	Examples such as a Duck Pond (Ducker) at Harrow School
14	(facilities)	Purpose built baths in some schools
45		facilities increased status or prestige of school
15	(status)	Low status compared to major team games
		century social and cultural factors continue to impact of ance in bathing and swimming today.
10	9 <sup>th</sup> century factors	their impact today
16	(size/overcrowding)	Most towns today are well provided with range of facilities including
	(0.20,010101010110,00)	leisure pools
		Examples of provision
		Can affect performance
17	(hygiene/washing)	No impact today – washing facilities at home for majority
	(il)giolic, raolilig)	Although some men only or women only baths available
18	(pollution)	Less pollution / impact today
	(penation)	<ul> <li>blue flags (or equivalent) on beaches/cleaner beaches &amp;</li> </ul>
		sea/less pollution
		impact of environmentalists
19	(disease)	Swimming to combat obesity and as part of balanced active healthy
		lifestyles today
		<ul> <li>health spas with relaxation pools etc/overcoming or</li> </ul>
		combating stress
		health link to performance

20	(safety)	It is widely believed that all children should learn to swim/swimming
		<ul> <li>is part of National Curriculum</li> </ul>
		<ul> <li>could go on to be good performers</li> </ul>
21	(class)	Class should not affect opportunity today
		<ul> <li>as Govt aims for free swimming for all / but still not available</li> </ul>
		for some
22	(local amenity)	Some towns have prestigious facilities which draw people from
		surrounding areas
		<ul> <li>improved transport</li> </ul>
		better performance

	estion nber	Expected Ans	swer	Marks
Sec	tion A	- Comparative	Studies (Option A2)	
2	(a)		igh status of Outdoor Education in Australian schools vision for Outdoor Education is different in the UK.	[4]
		4 marks – sub	max 3 for Australia	
		n of high statu d. has high sta	is: itus in Australian schools because:	
	max 3		1	
1	(HBL		Can contribute to a healthy balanced lifestyles	
2	(clima		Favourable climate/climate encourages Outdoor Educatio	
3	(wilde	erness)	Genuine wilderness exists/there is unexplored or unpopulaterritory	
4	(varie	ty/quality)	Varied (natural)environment or landscape/outback and be environment/outstanding natural resources/aesthetically appealing/chance to show or appreciate the beauty or var environment	
5	(acce	ssibility)	Easily accessible (from towns)	
6	(survi		Important (to learn the skills) in a country with hostile envir or severe climate or genuine wilderness	ronment
7	(bush	i culture)	OEd a reflection of bush culture or frontierism/bush culture experienced/outdoor adventure part of pioneering spirit	e can be
8	(pride	e/awareness)	Increases national pride or nationalism/raise awareness o aboriginal heritage (Ayres Rock renamed Uluru)	f
9	(tradi	tion)	Tradition of outdoor activities (from British colonial times)/	outdoor
10	(scho	ols)	It is examined in schools so status raised/many schools had quality) OE programmes so status raised	ave (high
11	(asso netwo	ciations/ ork)	States have outdoor education associations (eg The Victo Outdoor Education Association – VOEA) which supports t of OE/state associations are linked via national network (C Education Australia – OEA)/OEA supports the practice an of outdoor education throughout Australia	eachers Dutdoor
ar	nd why	provision for (	Outdoor Education is different in the UK.	
Sub	max 2			
		suitable compa	arative point such as:	
12	(clima		Less suitable climate	
13	,	ronment)	Less suitable or varied or accessible natural facilities	
14	(skills	,	(arguably) less need to learn the skills in (most parts of) U	K
15	(statu	1	Lower status in schools/not (generally) examined in school	
16	(scho	,	Constraints on schools eg funding or specialist staffing or equivalent suitable school constraint	

	stion nber	Expected Ans	swer	Marks
	(b)	and performa values stems 5 marks – sub	cultural values in Australia that can affect participation nce in physical activity. Explain how one of these from Australia's historical relationship with the UK. max 4 from Australia	[5]
		description req	identification of points such as 'bush culture' on own – juired	
			ralia - Sub max 4 marks	
1	(Busł	n culture)	(legacy of) bush culture <b>which is</b> showing determination o courage or persistence as a result of coping in a difficult environment	r
2	(Equa	ality/ ocracy)	Australia as an egalitarian society <b>meaning that</b> it is demo equal/social class and privilege are (allegedly) irrelevant/A as (allegedly) the land of the fair go <b>meaning that</b> racism discrimination does not exist or has been overcome/Austra democratic <b>meaning that</b> citizens are encouraged to be a political or civic life or enjoy human rights or is a country w laws and procedures apply equally to all citizens	ustralia or alia is ctive in
3		ing pot/Multi- alism)	Australia as a social melting pot <b>which is</b> a blend of differed peoples or backgrounds or immigrants/Australia is (now) c to multi-culturalism or is a multi-cultural society <b>meaning t</b> or different races or ethnic groups or cultures exist togethe	ommitted hat many
4	(Fair	play)	Fair play or sportsmanship or justice is respected or adminimportant (to the sporting ethos of) Australia	
5	(Tear	nwork)	Teamwork or co-operation or joint effort is respected or ad	mired
6	(Indiv	iduality)	Individuality or independence or self-reliance is respected admired	or
7	(Com	petitiveness)	Competitiveness or the desire to achieve or win is important many Australians / national pride	
8	·	cipation)	Taking part in sport or physical activity is fashionable or hig or important for health	-
Exp UK.		w one of these	values stems from Australia's historical relationship wit	th the
Sub	max 1			
9		teenth century) I	Competitiveness / Participation / Democracy from games cul English public schools which was taken to and then copied in	

Que Nun	stion nber	Expected Ansv	wer	Marks
Itun	(c)	that society. Discuss discri	on exists in society it may be evident in the sport of mination in high level sport in the USA. To what extent in the USA the same in sport in the UK?	[6]
		6 marks – sub r	nax 5 for discrimination in sport in USA	
Disc	uss di	scrimination in	high level sport in the USA.	
1	(WAS		Dominance by WASPs (white Anglo-Saxon protestant male	es)
2	(AA -	- discrim)	History of discrimination against African Americans in socie and/or in sport/(social) stereotyping of African Americans in sports eg boxing or athletics but not in others such as ice h	n certain
3	(AA -	- success/stars)	More recent (since 1950s) success by African American performers/more recent opportunity or provision or esteem performers from minority groups to be successful/sport sta created/opportunities for wealth and or fame/opportunities from rags to riches	rs
4	(Toke	enism)	Tokenism which is the hiring of a number of people from a ethnic group to give appearance of equality or as a symbol (perhaps to meet minimum requirement of law)	
5	(Stac	king)	Stacking is the grouping or directing of certain ethnic group (or away from) certain positions in sports teams/the disproportionate concentration of ethnic minorities into cert positions in sports teams/(eg ethnic minority players group peripheral positions or away from decision making position	ain ed into
6	(Cent	trality)	Centrality is notion that key or leadership or decision makir positions in a sports team are held by WASPs or whites or the top of the social pecking order /(eg coaches or manage still predominantly white)	those at
7	(Links	S)	Stacking and centrality are linked sociological concepts/sta and centrality mirror the hierarchical nature of American so	
8	(Glas	s ceiling)	A discriminatory barrier that prevents social minorities from positions of power or responsibility / an (invisible) barrier th determines the level to which a (demographic) minority car society or an organization / discrimination against groups e women	rising to at rise in
9	(Role	models)	The 'glass ceiling' can sometimes be broken or broken with difficulty which leads to the performer becoming a role mod the Williams sisters	
10	(mult	i-culturalism)	USA committed to multi-culturalism/stacking and centrality (arguably) becoming less evident (as more opportunities a those from ethnic minorities / pluralism	rise for
		ctent is the situa	tion the same in sport in the UK?	
	<u>max 2</u>			_
11 12	(UK) (UK)		Credit relevant point/s that illustrate the <b>presence or abse</b> USA factor <b>operating or not operating</b> in the UK/eg black as sports stars achieving wealth and fame	

Question Number	Expected Answer	Marks
(d)*	Compare the background and contemporary status of American football in the USA and Rugby Union in the UK. Evaluate the impact of commercialism on American football in the USA and Rugby Union in the UK.	
	Level 4: – a comprehensive answer	[18-20]
	detailed knowledge & excellent understanding	
	detailed analysis and excellent critical evaluation	
	• well-argued, independent opinion and judgements which are well	
	supported by relevant practical examples	
	very accurate use of technical and specialist vocabulary	
	high standard of written communication throughout.	
	Discriminators from Level 3 are likely to include:	
	<ul> <li>detailed knowledge and excellent understanding of all aspects of</li> </ul>	
	the question	
	• direct comparisons are made successfully between the background	
	and contemporary status of American football in the USA and	
	Rugby Union in the UK; other stand alone points may also be made	
	effective evaluation of the impact of commercialism on American	
	football in the USA and Rugby Union in the UK	
	sound structure and balance between parts of the question	
	Level 3: – a competent answer	[13-17]
	good knowledge & clear understanding	
	good analysis and critical evaluation	
	Independent opinions and judgements will be present but may not	
	always be supported by relevant practical examples	
	generally accurate use of technical and specialist vocabulary	
	written communication is generally fluent with few errors.	
	Discriminators from Level 2 are likely to include:	
	• good knowledge and understanding of most aspects of the question	
	• with some success, direct comparisons are made between the	
	background and contemporary status of American football in the	
	USA and Rugby Union in the UK; other stand alone points may also	
	be made	
	<ul> <li>be made</li> <li>competent evaluation of the impact of commercialism on American</li> </ul>	
	<ul> <li>be made</li> <li>competent evaluation of the impact of commercialism on American football in the USA and Rugby Union in the UK</li> </ul>	
	<ul> <li>be made</li> <li>competent evaluation of the impact of commercialism on American</li> </ul>	

Leve	el 2: – a limited answer	[8-12]
•	limited knowledge & understanding	
•	some evidence of analysis and critical evaluation	
•	opinion and judgement given but often unsupported by relevant practical examples	
•	technical and specialist vocabulary used with limited success	
•	written communication lacks fluency and contains errors.	
Disc	riminators from Level 1 are likely to include:	
•	limited knowledge and understanding of some aspects of the question	
•	with limited success, direct comparisons are made between the background and contemporary status of American football in the USA and Rugby Union in the UK; stand alone points are likely to be more in evidence	
•	an attempt at evaluation of the impact of commercialism on American football in the USA and Rugby Union in the UK with limited success	
•	an attempt at structuring/answering the question but not necessarily with balance between parts of the question	
Leve	el 1: – a basic answer	[0-7]
•	basic knowledge & little understanding	
•	little relevant analysis or critical evaluation	
•	little or no attempt to give opinion or judgement	
•	little or no attempt to use technical and specialist vocabulary	
•	errors in written communication will be intrusive.	
At Lo	evel 1 responses <u>are likely</u> to:	
•	demonstrate basic knowledge and understanding of some aspects of the question	
•	demonstrate a basic comparison of the background and contemporary status of American football in the USA and Rugby Union in the UK; stand alone points are likely to outnumber direct comparisons	
•	demonstrate little or no attempt at evaluating the impact of commercialism on American football in the USA and Rugby Union in the UK	

	oulleted) are the background and contemporary statu	is of American football in the USA and
	Union in the UK.	
Deele	American Football – USA	Rugby Union – UK
<u>васку</u> 1	round: In early 1800s (originally) there were no	In early 1800s (originally) there were no
I	generally accepted rules /mob game	generally accepted rules
	characteristics of the mob game	<ul> <li>characteristics of the mob game</li> </ul>
2	Evolved during 1800s	Evolved during 1800s
3	Adapted from Rugby Union	Developed in (nineteenth century) Public
-	Developed in Ivy League	Schools
	Universities	eg Rugby School/and universities eg
	• eg Yale (in 1800s)	Oxbridge
4	Remained a university game/became	Schools impacted on senior game as many
	professional game	clubs were formed
	<ul> <li>no tradition of club structure for</li> </ul>	<ul> <li>by 'Old Boys'/strong / club structure</li> </ul>
	game	
5	There is no single national governing body	RFU
	for AF in the USA	<ul> <li>established in 1871</li> </ul>
	<ul> <li>there are several leagues including the NFL/NFL formed in 1920</li> </ul>	
6	(by 1900) game was highly physical or	Controlled aggression rather than outright
0	violent or dangerous	violence
	serious injury or deaths of players	no real evidence of catastrophic injury
	not uncommon/lead to intervention	or death during developmental stages
	by President	
	• in 1910 season 6 players were killed	
	which resulted in rule changes	
7	Originally called 'grid-iron'/pitch markings	Pitch markings present
	were originally horizontal and vertical	
8	Rules increased or encouraged physicality	Rules restrict physicality
9	Game reflected 'frontier' or 'pioneering'	Game reflected values of public schools or
	spirit'	Empire
		<ul> <li>eg leadership/courage/ determination</li> </ul>
10	Initially little protective clothing	No protective clothing until (relatively) recently
10	Forward pass made legal	No forward pass
12	Strong rivalry between universities	Strong rivalry between universities
13	Became professional early in development	Became professional in 1995
		Friendly' Matches until 1990s/leagues
		developed with onset on professional
		etc
		Paris declaration
14	Professional coaches employed by	No professional coaching during development
	universities	/ prof. coaching post professional era
15	Game not influenced by class structure	Middle class game
	<ul> <li>stacking and centrality</li> </ul>	more egalitarian
10		more discrimination
16	An American game that supported	Game spread to C18 countries of Empire
	isolationist policy of USA/is America's own	
	<ul> <li>game has been mainly rejected elsewhere</li> </ul>	
17	Embraced commercialism	Resisted commercialism
17		

Con	temporary status	
18	Very high status	Very high status
		<ul> <li>Especially in some parts of the UK (eg south of England)</li> </ul>
19	Most popular spectator sport in USA	Not the most popular sport
		behind Premiership Football League
		in UK
		<ul> <li>growing business</li> </ul>
20	Game is entertaining or sensational or intense or hard-hitting	Skill or creativity or flair as or more important than intensity
	which arguably raises its status or	greater intensity since game went
	popularity	professional
21	Entertainment off the pitch	Increasingly has entertainment off the pitch
	eg cheerleaders or mascots	eg cheerleaders or mascots
22	Outright winners (no draws)	There are draws
	win ethic	participation ethic
23	Has high media profile or hype	Increasing media product or hype
		impact of Sky TV
24	Is strictly linked to big business/is highly	Increasingly linked with business and
25	commercialised Gives access to the American Dream	commercialism Gives opportunity for fame and fortune
25	to very few/produces sport stars eg	<ul> <li>to very few/produces sport stars eg</li> </ul>
	accept any suitable example	Wilkinson
26	High status in High Schools	High status in schools
_•	little league / modified competitions	High status especially in
		independent schools
		Mini rugby / modified competitions
27	Image of game has been knocked by	Image of game has been knocked by
	scandal	scandal
	eg drugs and deviance	eg drugs and deviance
28	Image has stayed largely the same	Image or status of game has (arguably)
<b>F</b>		changed since onset of professional era
	luate the impact of commercialism on Amer ie UK.	ican football in the USA and Rugby Union
	n games	
29	Strong links between the game, sponsorship the golden triangle	and media
30		e or media rights or satellite or cable TV deals
_	Examples	-
31	Arguably the link with commercialism increas	es temptation to cheat
•	eg drug taking	
32	Laws of games designed (AF) or modified (R	U) to make game more entertaining or
	attractive	
	Examples	
33	Sponsorship – impact of involvement by mult eg (accept suitable example)	inational companies
Ame	erican Football	
34	Massive media interest	
•		
_	eg 130 million/highest TV audience in US	
35	Super Bowl – showpiece event and champior	nship game of NFL
	Super Bowl as championship game of NFL	

36	Regular TV commercial breaks
•	Longer breaks
37	Teams bought or sold as franchises/teams move within country when bought or sold
•	eg accept relevant example
38	Draft system operates where players are 'bought/sold'
Rug	by Union
39	Increasing impact of commercialism
•	copying USA model/becoming Americanised
•	salary cap
40	League (competition) structure put in place
•	European cup developed (increased commercial potential)
41	since Rugby Union became professional (in 1995)
42	Onset of professionalism/commercialism stopped 'rush' of union player to league code
43	Impact of Rugby World Cup as commercial stimulant

Que: Num	stion	Expected Answer	Marks
		Sporte Developer (Option D4)	
<u>Sect</u> 3	<u>юп в -</u> (а)	- Sports Psychology (Option B1) Identify four different types of attribution proposed by Weiner's attribution model and give a practical example for each type identified.	[4]
Four	marks	for: (must have practical example for each)	
1	Exte	rnal/extrinsic/environmental/uncontrollable attributions + practical example ne weather/luck/task difficulty/other players etc.	
2	Inter	nal/intrinsic/dispositional/personal/controllable attributions + practical nple eg effort/determination/ability etc	
3	Stab	le/unchanging/persistent/enduring attributions + practical example eg task ulty/opposition/ability etc	
4		able/changeable attributions + practical example eg effort /tactics etc.	
	(b)	Describe how goal setting can impact on participation and performance in sport.	[5]
5 ma	rks for	5 from: opposites to count for negative influences of goal setting	
1	bette	vation can motivate/encourage to participate/play/join-in/to do well/ strive for er performances or personal bests	
2	Can	increase confidence /self esteem / self efficacy / mastery orientation	
3		encourage persistence/sticking to the task/not giving-up	
4		give direction/focus/end product to aim for/concentration	
5	Can	help to control anxiety/stress/arousal	
6		t be SMART/SMARTER (specific/measurable/achievable/realistic/time- sed) (SMARTER to include exciting/recorded) to be relevant	
7		help to develop skills/strategies/tactics	
	(c)	Explain the causes and effects of evaluation apprehension on sports performance or lifestyle behaviours.	[6]
6 ma	rks for	6 from:	
Sub	max 4	marks for causes	
(Cau	ses)		
No m		or repeating question eg Evaluate	
1		sed by (perception that) others are judging your performance/lifestyle	
2		e acute/likely if those who are watching are of high status/role els/friends/parents/people we look up to	
3		e likely for those that have (high trait/state) anxiety in the situation	
4		e likely for those that have low self esteem/lack confidence/those that bute their behaviour internally / have had negative experiences.	
Sub (Effe		marks for effects (total of 6 marks available only)	
5		ses increase in anxiety/stress/arousal	
6		Is to doubt/lack of confidence/facilitates need to avoid failure behaviour/ dance behaviour / prejudiced against the activity	
7	Can	cause performer to give up/'choke'/revert to poor lifestyle / poor or mance/social inhibition	
8	Can	lead to poor attentional control/difficult to concentrate/make sions/affects perceptual awareness/makes the wrong decision about lifestyle	
9	Can	motivate to try harder/be more determined to win/facilitates need to achieve aviour/determined to stick to healthy lifestyle	

Question Number	Expected Answer	Marks
(d)*	Evaluate critically theories of aggression that seek to explain why negative responses often occur in sporting situations. Use practical examples for the theories you evaluate.	[20]
	Level 4: – a comprehensive answer	[18–20]
	<ul> <li>detailed knowledge &amp; excellent understanding</li> <li>detailed analysis and excellent critical evaluation</li> <li>well-argued, independent opinion and judgements which are well supported by relevant practical examples</li> <li>very accurate use of technical and specialist vocabulary</li> <li>high standard of written communication throughout.</li> </ul>	
	<ul> <li>Discriminators from Level 3 are likely to include:</li> <li>all (4) main theories likely to be explained - (Instinct/frustr-agg/Agg cue/Social learn theory)</li> <li>nature versus nurture likely to be referred to appropriately</li> <li>practical examples are consistently used effectively for each theory identified and gives appropriate context</li> <li>there are relevant evaluative points made for each theory</li> <li>frequent use of/links with relevant psychological terminology/theories</li> <li>the negative aspects of aggressive responses are referred to effectively</li> </ul>	
	Level 3: – a competent answer	[13-17]
	<ul> <li>good knowledge &amp; clear understanding</li> <li>good analysis and critical evaluation</li> <li>Independent opinions and judgements will be present but may not always be supported by relevant practical examples</li> <li>generally accurate use of technical and specialist vocabulary</li> <li>written communication is generally fluent with few errors.</li> </ul>	
	<ul> <li>Discriminators from Level 2 are likely to include:</li> <li>at least three main theories explained</li> <li>practical examples are often used effectively to give context</li> <li>there are relevant evaluative points made for most theories identified</li> <li>some use of/links with relevant psychological terminology/theories</li> </ul>	

Level 2: – a limited answer	[8–12]
Iimited knowledge & understanding	
<ul> <li>some evidence of analysis and critical evaluation</li> </ul>	
opinion and judgement given but often unsupported by relevant	
practical examples	
technical and specialist vocabulary used with limited success	
written communication lacks fluency and contains errors.	
Discriminators from Level 1 are likely to include:	
theories are described rather than explained	
practical examples are sometimes used effectively to give context	
there are few evaluative points made for each theory	
little use of/links with relevant psychological terminology/theories	
Level 1: – a basic answer	[0-7]
basic knowledge & little understanding	
little relevant analysis or critical evaluation	
little or no attempt to give opinion or judgement	
little or no attempt to use technical and specialist vocabulary	
errors in written communication will be intrusive.	
At Level 1 responses <u>are likely</u> to:	
• few theories are described and are at times inaccurate.	
• practical examples, if used, are often irrelevant	
little or no evaluative material	
little or incorrect use of/links with relevant psychological	
terminology/theories.	

**Indicative content:** candidate responses are likely to include: (suggested development points are bulleted, \*= possible evaluation comments)

	ulleted, *= possible evaluation comments)	
Theo	ries of aggression that seek to explain why negative responses often occur	
in sp	orting situations.	
(Instir	nct theory)	
1	Instinct/natural/innate tendencies / stable/enduring	
	<ul> <li>personality characteristics/personality defects/ mental illness</li> </ul>	
2	A response to protect/survive	
3	Anger/high arousal	
	stress as triggers	
4	Can be caused by others' aggression	
	retaliation	
5	*But not all people are aggressive	
6	*But aggression shown by people at different times	
	depends on the situation/environment.	
(Frus	tration-aggression hypothesis)	
7	Frustrating circumstances blocks your goal	
	Frustration causes aggression	
8	Aggressive to achieve catharsis	
	to feel better/to release frustration	
9	Often aggression if punished leads to more aggression	
	Iack of catharsis	
10	Often caused by perceived/actual unfairness	
_	eg refs'/officials' poor decisions	
11	Frustration caused by poor personal performance	
	<ul> <li>eg having a poor game</li> </ul>	
12	*But not all behave like this in frustrating circumstances	
13	*Does not take into consideration differing circumstances/environment	
14	*Aggression is never satisfying to most and creates regret	
	leads to low self-esteem	
(Aggr	essive Cue hypothesis)	
15	Signals/cues/stimuli from the environment	
	situation trigger aggression (innately)	
16	Because cue is identified with expected/desired behaviour/we have learned	
	this response from previous experiences	
17	Conditioned response/S-R bond that has been learned	
	operant conditioning	
18	You get praise/reinforcement if you are aggressive	
19	*The same cue can elicit different responses at different times for the same	
	person	
20	*The same cue can elicit different responses for different people	
21	*We have the perceptual ability/control to be able to recognise inappropriate	
	aggression and avoid it	
(Socia	al learning theory)	
22	Watching/observing others who are aggressive likely to be copied	
	vicarious processes	
23	Learn aggressive behaviour from significant others	
	<ul> <li>role models with possible examples</li> </ul>	
24	Reinforcement of aggressive behaviour will increase chance of copying	
25	Copying more likely if same sex model	
26	Males more likely to be physically aggressive than females	

27	Live/realistic models more likely to be copied	
28	*At times we do not copy those that model behaviour (role models) – which	
	opposes social learning view.	
29	*Counter-cultural behaviour/wanting to be different/strong sense of	
	independence can lead to role models/required behaviour being	
	countered/ignored.	
30	*Sometimes can't help ourselves be aggressive/innate feelings counteract what	
	we ought to be doing/how we are behaving.	
	5 5 5	
(Othe	rs possible approaches)	
(exter	nal factors)	
31	Displaced aggression/other influences outside of sport	
	<ul> <li>it's not what happens in sport but other external factors</li> </ul>	
32	*Difficult to prove	
33	*One person who experiences the same external factors as another can	
	behave very differently	
(Cultu	ire)	
34	Socialisation/cultural norms and values determine your behaviour/it is expected	
	cultural determinants	
35	*Can't help our innate feelings	
(Expe	ectations of the game/sport)	
36	Game determinants/expected/norms in the game / to intimidate/dominate	
	opponent	
	<ul> <li>examples of such activities eg ice hockey</li> </ul>	
37	*Different people playing the same sport react differently	
38	People behave in spite of the game's norms because of other influences	
	<ul> <li>people bring expected norms to a sport and sport is not a determinant</li> </ul>	
	for behaviour/too many other stronger influences other than the sport	
	that dictates behaviour.	
L		

Question Number	Expected Answer	Marks
	– Biomechanics (Option B2)	
4 (a)	What is meant by the terms, line of gravity, and, base of support?         Use practical examples to show how a performer can maximise         their stability.         4 marks in total         Sub max 2 marks for:	[4]
	<ol> <li>(line of gravity) extends from the CM (vertically) down to the ground/shows the application and direction of weight.</li> <li>(base of support) the area on the ground enclosed by the points of</li> </ol>	
	contact of the performer's body on the ground or eq.	
	2 marks from: (must use practical examples)	
	<ul> <li>3 by lowering CM (eg bending knees in order to tackle in rugby)</li> <li>4 Increasing base of support. (eg widening stance in judo)</li> </ul>	
	5 by making line of gravity/CM/weight within/central to base of support (eg standing straight/no leaning when rebounding in basketball)	
	6 Increasing body mass (eg sumo wrestling)	
(b)	Explain how a performer generates spin on a ball and describe the effects of spin on the bounce of a ball. 5 marks in total from: (generation of spin) sub max 3	[5]
	(generation of spin) sub max 5	
	1 Eccentric/off centre/moment of force must be applied	
	2 Force applied outside CM of the ball	
	3 Gives ball angular momentum/motion	
	(effect of spin on bounce) sub max 3	
	4 Topspin makes ball shoot forward/accelerate off surface/move at a smaller angle to the surface	
	5 Backspin makes ball sit up/decelerate off surface/move at a greater angle to the surface	
	6 Sidespin has little or no effect on bounce of the ball / allows ball to keep on swerving in same direction	

Question Number	Expected Answer	Marks
(c)	Explain the factors that affect the Moment of Inertia of a performer. Describe how a sprinter uses this concept to improve the efficiency of the recovery phase of the stride action.	[6]
	6 marks in total:	
	(MI) Sub max 4 marks	
	1 (Definition) MI is the tendency of a body to resist changes in angular motion or rotation/is the rotational equivalent of inertia or mass	
	2 (Identification) depends on mass of the body.	
	3 (Explanation) larger the mass the greater the MI/or opposite.	
	4 (Identification) depends on distribution / distance of mass of the body from axis of rotation / MI = $\Sigma mr^2$ / length of lever	
	5 (Explanation) further the mass is from axis of rotation the greater MI/or opposite.	
	6 (Explanation) Greater MI therefore there is greater resistance to rotation	
	(recovery)	
	7 Knee is bent / flexed.	
	8 Brings mass of leg closer to hip joint/axis of rotation.	
	9 This reduces MI of the leg.	
	10 Enables leg to come through faster/easier/ less force/effort required	

(d)*	Explain the methods used to reduce the forces acting on a ski jumper whilst descending down the ski ramp before take off. Compare the ski jumper's use of the Bernoulli Effect during flight with that of a Formula 1 car when racing and explain how its use improves the performance of each.	[20]
	Level 4: – a comprehensive answer	[18–20]
	<ul> <li>detailed knowledge &amp; excellent understanding</li> <li>detailed analysis and excellent critical evaluation</li> <li>well-argued, independent opinion and judgements which are well supported by relevant practical examples</li> <li>very accurate use of technical and specialist vocabulary</li> </ul>	
	<ul> <li>Discriminators from Level 3 <u>are likely</u> to include</li> <li>detailed knowledge and excellent understanding of the methods used to reduce the forces of friction and air resistance acting on a ski jumper</li> <li>detailed knowledge and excellent understanding of the Bernoulli Effect and how it improves performance of both the ski jumper and the formula 1 racing car</li> <li>direct comparisons are made successfully between the Bernoulli Effect in relation to the flight of the ski jumper and a formula 1 racing car when racing; other stand alone points may also be made</li> <li>sound structure and balance between parts of the question</li> </ul>	
	Level 3: – a competent answer	[13–17]
	good knowledge & clear understanding	
	<ul> <li>good analysis and critical evaluation</li> </ul>	
	Independent opinions and judgements will be present but may not always be supported by relevant practical examples	
	<ul> <li>generally accurate use of technical and specialist vocabulary</li> </ul>	
	<ul> <li>written communication is generally fluent with few errors.</li> <li>Discriminators from Level 2 are likely to include</li> </ul>	
	<ul> <li>good knowledge and understanding of the methods used to reduce the forces of friction and air resistance acting on a ski jumper</li> </ul>	
	<ul> <li>good knowledge and understanding of the Bernoulli Effect and how it improves performance of both the ski jumper and the formula 1 racing car</li> </ul>	
	• with some success, direct comparisons are made between the Bernoulli Effect in relation to the flight of the ski jumper and a formula 1 racing car when racing; other stand alone points may also be made	
	<ul> <li>an attempt at structuring/answering the question with balance between parts of the question</li> </ul>	

Le	evel 2: – a limited answer	[8–12]
•	limited knowledge & understanding	
•	some evidence of analysis and critical evaluation	
•	opinion and judgement given but often unsupported by relevant practical examples	
•	technical and specialist vocabulary used with limited success	
•	written communication lacks fluency and contains errors.	
Di	iscriminators from Level 1 are likely to include	
•	limited knowledge and understanding of the methods used to reduce the forces of friction and/or air resistance acting on a ski jumper	
•	limited knowledge and understanding of the Bernoulli Effect and how it improves performance of both the ski jumper and the formula 1 racing car	
•	with limited success, direct comparisons are made between the Bernoulli Effect in relation to the flight of the ski jumper and a formula 1 racing car when racing; stand alone points are likely to be more in evidence	
•	an attempt at structuring/answering the question but not necessarily with balance between parts of the question	
Le	evel 1: – a basic answer	[0–7]
•	basic knowledge & little understanding	
•	little relevant analysis or critical evaluation	
•	little or no attempt to give opinion or judgement	
•	little or no attempt to use technical and specialist vocabulary	
•	errors in written communication will be intrusive.	
A	t Level 1 responses <u>are likely</u> to:	
•	demonstrate basic knowledge and understanding of the methods used to reduce the forces of friction and/or air resistance acting on a ski jumper	
•	demonstrate a basic comparison the Bernoulli Effect in relation to the flight of the ski jumper and formula 1 racing car when racing; stand alone points are likely to outnumber direct comparisons	

	bulleted)	to reduce the forces acting o	n a ski jumnor	whilst descending
		ramp before take off.	n a ski juniper	winist descending
401		(Force identification)		
1		Friction (between snow and ski	s)	
•		· · · · · · · · · · · · · · · · · · ·	,	acts against ski jumper
2				
				tion of motion increases as ski
		jumper's speed increas		
3		To achieve a higher speed/velo		
(Re	duce	• To jump further.	5	
forc		- ) - 1		
	,	(Reducing friction)		
4		Reducing roughness of/smooth	er surface of sk	is
		Use of wax on skis.		
5		Making ski tracks/ramp icier/sm	oother send tria	I jumpers down ramp first/
		pouring water on ramp		
		(Reducing air resistance)		
6		Streamlining.		·
		0	ound skier / red	ucing turbulent flow / drag
		reducing profile drag / t		
7		(id) Reduce frontal / forward cr	oss sectional ar	ea.
			(ex) Tuck positi	on
8		(id) Reduce surface friction of a	ir across skier.	
		(ex) Specialist smooth ski cloth	ing.	
9		(id) Reduce turbulence behind	skier.	
		(ex) Tear drop shape/change b	ody shape to sn	nooth air flow behind skier.
Cor	nparison:		1	1
		Ski jumper	Similar/diff	Formula 1 racing car
	rnoulli Eff	1		
10	Body for	ns an aerofoil shape	S/D	Spoiler/wing forms upside down aerofoil shape.
11	Creating	angle of attack	S	Creating angle of attack
12	Air travel	s further over top of ski jumper.	D	Air travels further under
40	A. 1 1	<u> </u>		spoiler/wing
13	Air travel	s faster over top of ski jumper	D	Air travels faster under
4.4	0		<b></b>	spoiler/wing
14		ow pressure over top of ski	D	Creates low pressure under
45	jumper	i) Fores formed from high to	<u> </u>	spoiler/wing
15		i) Force formed from high to	S	(Bernoulli) Force formed from
16	low press			high to low pressure
16	Bernoulli	/ lift force upwards	D	Bernoulli force downwards/down force
(lm-		ormanco)		
	brove perf			
17 Keeps skier 19 Travels furth				normal reaction
19	Traveis T		20 Increases friction between tyres and road surface	
21	Non para	abolic flight path		celeration/can go round
21			corners faster	
			comers laster	

Question Number	Expected Answer	Marks
Exercise an	d Sport Physiology (Option B3)	
5(a)	Describe the physiological adaptations that you would expect to occur to skeletal muscle after the completion of a maximum strength training programme. 4 marks in total from:	[4]
1	Muscle hypertrophy (more total protein) / hyperplasia / muscle cells splitting / more fast twitch muscle fibres	
2	Increased concentrations /stores of PC / ATP	
3	Increased glycogen stores	
4	Increased tolerance to lactic acid / buffering	
5	less lactic acid produced for the same workload	
6	increase in levels of glycolytic enzymes	
7	Recruitment of additional motor units	
8	Training may reduce or counteract autogenic inhibition/tension threshold of golgi tendon organs	
9	Improved coordination (synchronisation of motor unit activation)	
(b)	Describe the main process involved in the Lactacid component of the recovery process. 5 marks in total from:	[5]
1	Lactic acid (accumulated during exercise) must be removed	
2	Lactic acid is converted back to pyruvic acid	
3	Pyruvic acid enters the TCA cycle / Krebs cycle / metabolised aerobically	
4	Broken down to carbon dioxide, water and (energy)	
5	Over 60% of lactic acid is used as a metabolic fuel	
6	Remaining lactic acid is taken to liver as lactate	1
7	Then re-synthesised to glucose / glycogen	1
8	Small amounts of lactic acid converted into protein / removed in sweat and urine / removed as a waste product	
9	The process takes about an hour	
10	Uses between 5 and 8 litres of oxygen	

(c)	Outline and justify the advice you would give to an endurance performer about the content and consumption of the pre- competition meal.	
	6 marks in total Sub max 2 marks for content of the meal	
	Examples:	
1	Any carbohydrate example e.g. Muffins/crumpets with jam/honey/oatcakes/pasta with tomato based sauce/baked potato/cereal with low fat milk/banana/creamed rice and fruit etc	
2	Any other carbohydrate example	
3	Drink approx 500ml of fluid (water/sports drink/diluted fruit juice)	
	Sub max 5 for justification	
4	Prevent dehydration	
5	Prevent depletion of glycogen	
6	Maintain blood glucose	
7	Maintain electrolyte balance	
8	Avoid an upset stomach	
9	Have high carbohydrate meal (+200g) approx 3 hours before event	
10	Preferably eat carbohydrates with low GI / complex for slow release of energy	
11	Smaller/simple carbohydrate 1-2hours before event	
12	choose foods you like and that you tolerate	
13	Reduce fat / spicy food content in pre comp meal (avoids upset stomach)	
14	Decrease the amount of fibre in pre comp meal (avoids upset stomach)	
15	liquid meals empty more quickly from the stomach	
16	Continue to drink small amounts of fluid until start time to remain hydrated	

(d)*	Analyse the information in the table and determine which fitness components need to be improved. Devise an appropriate training programme and highlight how your programme will result in an improvement in the health and fitness of the student.	[20]
	Level 4: – a comprehensive answer	
	<ul> <li>detailed knowledge &amp; excellent understanding</li> <li>detailed analysis and excellent critical evaluation</li> <li>well-argued, independent opinion and judgements which are well supported by relevant practical examples</li> <li>very accurate use of technical and specialist vocabulary</li> <li>high standard of written communication throughout.</li> </ul> <b>Discriminators from Level 3</b> <u>are likely</u> to include: <ul> <li>detailed knowledge and excellent understanding of the principles of training</li> <li>detailed analysis of the information in the table</li> <li>the principles of training are applied successfully and an appropriate training programme devised</li> <li>detailed knowledge and excellent understanding of the health and fitness benefits of the training programme</li> </ul>	[18–20]
	Level 3: – a competent answer	[13–17]
	<ul> <li>good knowledge &amp; clear understanding</li> <li>good analysis and critical evaluation</li> <li>Independent opinions and judgements will be present but may not always be supported by relevant practical examples</li> <li>generally accurate use of technical and specialist vocabulary</li> <li>written communication is generally fluent with few errors.</li> </ul> Discriminators from L2 are likely to include: <ul> <li>good analysis of the information in the table</li> <li>the principles of training are applied with some success and a broadly appropriate training programme devised</li> <li>good knowledge and understanding of the health and fitness benefits of the training programme</li> <li>an attempt at structuring/answering the question with balance between parts of the question</li> </ul>	

Level 2: – a limited answer	[8–12]
Iimited knowledge & understanding	
<ul> <li>some evidence of analysis and critical evaluation</li> </ul>	
opinion and judgement given but often unsupported by relevant	
practical examples	
<ul> <li>technical and specialist vocabulary used with limited success</li> </ul>	
<ul> <li>written communication lacks fluency and contains errors.</li> </ul>	
Discriminators from L1 are likely to include:	
• limited knowledge and understanding of the principles of training	
• some evidence of analysis of the information in the table	
• the principles of training are applied and with limited success, a	
training programme devised, aspects of which may be	
appropriate,	
Iimited knowledge and understanding of the health and/or fitness	
benefits of the training programme	
<ul> <li>an attempt at structuring/answering the question but not</li> </ul>	
necessarily with balance between parts of the question.	
 •	
 <u>Level 1: – a basic answer</u>	[0–7]
basic knowledge & little understanding	
<ul> <li>little relevant analysis or critical evaluation</li> </ul>	
<ul> <li>little or no attempt to give opinion or judgement</li> </ul>	
<ul> <li>little or no attempt to use technical and specialist vocabulary</li> </ul>	
errors in written communication will be intrusive.	
At Level 1 responses <u>are likely</u> to:	
• demonstrate basic knowledge and understanding of the principles	
of training	
• demonstrate little relevant analysis of the information in the table	
• the principles of training are applied and, with limited success, a	
training programme is devised, aspects of which may be broadly	
appropriate,	
demonstrate basic knowledge and understanding of the health	
and/or fitness benefits of the training programme	

are bulleteu)		
	Fitness components	
1	High RHR indicates aerobic capacity need to improve	
2	Bodyfat test score suggests body composition needs to improve	
3	Sit and reach score suggests lower back and hamstring flexibility	
	needs to improve	
4	Sit up score suggests strength endurance of abdominal muscles needs	
	to improve	
5	Wall squat score suggests that strength endurance of the quadriceps	
	needs to improve	
6	12 minute run score suggests aerobic capacity needs to improve	
	Training programme	
7	Improve strength endurance with circuit training / interval training	
	e.g. squats, burpees, sit-ups, press-ups etc	
8	30:60 secs work:rest	
	Work: rest ratio 1:2	
9	Improve strength endurance with weight training	
	• e.g. leg extensions, bench press, squats etc	
10	High reps, low weights	
_	• High reps 10+	
	Low weight below 70% 1RM	
11	2/3 sessions a week	
12	Improve <b>flexibility</b> by perform static (passive/active)/PNF etc flexibility	
•=	work (during cool down periods)	
	other examples eg ballistic	
	detail of flexibility method	
13	improve aerobic endurance with continuous training	
10	long duration and low intensity	
	<ul> <li>20mins +</li> </ul>	
	Below 70% VO <sub>2</sub> max	
14	fartlek	
17	<ul> <li>form of continuous training with low intensity exercises</li> </ul>	
	interspersed with high intensity exercises	
	<ul> <li>eg jog, sprint, jog etc / running over different terrains</li> </ul>	
15	Interval training / repetition running (work rest intervals/distance)	
10	<ul> <li>intervals to improve aerobic capacity</li> </ul>	
	<ul> <li>work period 3 min plus</li> </ul>	
16	2/3 sessions a week	
17	use of training target heart rates	
17	• $60 - 80\%$ MHR	
18	<b>Change activity</b> to maintain variety eg cycling, swimming, running	
10	General	
19	Keep training diary	
15	<ul> <li>to monitor intensity/duration/repetitions/work:rest ratios</li> </ul>	
20	Principles of training- overload; progression; variance	
20	<ul> <li>overload to increase amount of work body does</li> </ul>	
	•	
	<ul> <li>progression to increase workloads once adaptations have been made</li> </ul>	
	been made	
	variance to maintain motivation / prevent RSI	
	specificity	
	moderation	
	reversibility	

21	Set realistic targets	
22	Re-test to monitor improvement	
23	Periodisation     Microcycle / Mesocycle / Macrocycle	
	Health improvements	
24	Training programme should reduce RHR	
25	Increase in cardiac output / stroke volume	
26	<ul> <li>Overall improvement of the VO2 max of the student</li> <li>Increased lung capacity/RBC/mitochondria/capillary density/ or equiv.</li> </ul>	
27	<ul> <li>Reduce risk of CHD / atherosclerosis / arteriosclerosis / hypertension</li> <li>Reduced amount of LDLs / Increase in HDLs</li> </ul>	
28	<ul> <li>Reduce risk of obesity/ (type II) diabetes / % Body fat should decrease</li> <li>Increase in lean body mass / muscle hypertrophy / negative energy balance</li> </ul>	
29	Reduced risk of osteoporosis     Maintenance of bone density / calcium deposits	
30	<ul> <li>Reduced risk of lower back problems / improved posture / joint stability</li> <li>Increased core stability / muscle / ligament strength / flexibility</li> </ul>	

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