

ADVANCED SUBSIDIARY GCE

PHYSICAL EDUCATION

Principles and concepts across different areas of Physical Education

MARK SCHEME

Wednesday 23 June 2010 Morning

G453

Duration: 2 hours 30 minutes

MAXIMUM MARK 105

STANDARDISATION VERSION

This document consists of 34 pages

General Instructions on Marking Scripts

You should refer to the Instructions for Examiners documentation for detailed guidance.

For many question papers there will also be subject, or paper-specific, instructions which supplement these general instructions. The paper-specific instructions follow these generic ones.

1 Before the Standardisation Meeting

Before the Standardisation meeting you must mark at least 10 scripts from several centres. For this preliminary marking you should use **pencil** and follow the **mark scheme**.

Bring these marked scripts to the meeting.

2 Marking and Annotation of Scripts After the Standardisation Meeting

- 2.1 Scripts must be marked in **red**, including those initially marked in pencil for the Standardisation meeting.
- 2.2 All scripts must be marked in accordance with the version of the mark scheme agreed at the Standardisation meeting.

2.3 Annotation of scripts

Examiners should use annotation to show clearly where a mark is earned or why it has not been awarded. This will help examiners, checkers and those who review the marking of scripts.

Annotation consists of:

- ticks and crosses to show where marks have been earned or not earned
- specific words or phrases as agreed at Standardisation and as contained and included in the final mark scheme to show why a mark has been earned or indicate why a mark has not been earned (eg to show there is an omission)
- standard abbreviations, eg for *follow through*, *special case*, etc.

As scripts may be returned to centres, you should use the minimum of comments and make sure that these are related to the award of a mark or marks and are matched to statements in the mark scheme.

Do **not** include general comments on a candidate's work.

Record any annotation in the body of the answer, or in the margin next to the point where the decision is made to award, or not award, the mark.

2.4 Recording of marks

- 2.4.1 Give a clear indication of how marks have been awarded, as instructed in the mark scheme.
- 2.4.2 Record numerical marks for responses to part-questions **unringed** in the righthand margin. Show the total for each question (or, in specific cases, for each page) as a single **ringed** mark in the right-hand margin at the end of each question.
- 2.4.3 Transfer ringed totals to the front page of the script, where they should be totalled.
- 2.4.4 Show evidence that you have seen the work on every page of a script on which the candidate has made a response.
- 2.4.5 Cross through every blank page to show that you have seen it.

3 Handling of unexpected answers

The Standardisation meeting will include discussion of marking issues, including:

- consideration of the mark scheme to reach a decision about the range of acceptable responses and the marks appropriate to them
- comparable marking standards for optional questions
- the handling of unexpected, yet acceptable, answers.

If you are not sure how to apply the mark scheme to an answer, you should telephone your Team Leader.

estion			Ма
tion A	– Historical Studies	(Option A1)	[4
(a)	Describe three features of the1950s programme of Physical Education for state schools <i>(Moving and Growing and Planning the Programme).</i> Outline one difference between the 1950s programme and the programme for PE in state secondary schools today.		
		4 marks for 4 of: sub max 3 for features - mark first three answers only	
		sub max 1 for difference – mark first difference only	
Fea	tures of 1950s: Sub N	lax three	
1	(enjoyment)	enjoyment/having fun/participation/the experience	
2	(education)	education/learning skills/holistic development/development of whole child/more than physical benefits	
3	(ed. gym)	(educational) gymnastics/movement to music/swimming/games skills/dance	
4	(decentralized)	decentralised/individuals doing different things/not all doing same at same time/not centralised/more freedom	
5	(problem solving)	problem solving/thinking or cognitive/group work/partner work	
6	(child-centred)	child centred/activities for different age groups	
7	(facility/apparatus)	in gymnasia/purpose built facility or apparatus/apparatus similar to army assault course	
8	(teachers)	specialist (PE) teachers/interaction with teachers	
		e – mark first answer only	
9	(age group)	M&G for junior age	
10	(NC)	National curriculum/compulsory/ compulsory content/PESSYP/SSCOs/partnerships/ other initiatives/5 hour offer	
11	(breadth)	Broader today/examinations/theory	
12	(specialists)	(Today): more specialist PE teachers/teachers must be qualified/taught by graduate profession	
13	(facilities)	(Today): better facilities/sports halls/ use of community facilities/dual use	
14	(pressure)	(Today): under pressure/aligning pressure on time table with time requirements	

stion			Ma		
In w		pre-industrial Britain had certain characteristics. Tennis different from most other popular	[5		
Acc	count for limited par	rticipation in Real Tennis today.			
	O NOT ACCEPT LA	max 4 for differences			
sub max 2 for limited participation today					
1	(courtly)	Courtly/played by elite/upper class/ gentry (BOD)/exclusive			
2	(rules)	It had written/complex rules/it was structured/more organised			
3	(not violent)	It was not cruel or violent/it had etiquette/it was high culture/it was sophisticated/skilful/respectable/civilised			
4	(regular)	It was played regularly/often			
5	(facilities)	It had purpose built facilities/expensive court/not natural facility/it had specialist or expensive equipment			
6	(not local)	Not local/upper class had transport or could travel to play			
Limited participation today:					
7	(facilities)	Limited availability of (specialist) facilities/few courts or clubs			
8	(expense)	Expensive			
9	(skill)	Skilful game/difficult to play/complex rules/lack of coaches			
10	(friends)	Don't know others who play/friends don't play/lack of role models or media coverage			
11	(perception)	Perception that it is an exclusive game/for Royalty/do not choose to/feel 'not for them'			
12	(initiatives)	Limited advertising or initiatives/unaware of opportunities			
13	(lawn tennis)	Lawn tennis as alternative			

Cricket in public schools had very high status in stage three. Explain how participation in cricket could develop values in public school boys at this time. Explain barriers to achieving these values in cricket in state schools today.		
6 m	arks for 6 of:	sub max 5 for values sub max 2 for barriers today marks to be awarded in context of cricket LIST OF VALUES = NO MARKS
Cri	cket could devel	ор:
1	(honesty/ integrity)	eg 'walking' when out or admitting catch not made/not cheating/sportsmanship or fair play/accepting umpire's decisions/respect of opposition/etiquette
2	(courage/self control)	Courage/physicality/manliness/coping with difficulty/not complaining/test of temperament/discipline/keeping cool under pressure
3	(teamwork)	co-operation/social cohesion
4	(leadership)	decision making (captaincy)/response to leadership/social control
5	(loyalty)	(Loyalty) to team or house or school
6	(endeavour)	determination/perseverance/commitment
7	(trust)	(Trust) in team mates/in captain's decisions/in selection
8	(skill)	Prowess/achievement/improvement/ eg in cricket
9	(health)	Health/healthy balanced lifestyles/well being
10	(organisation)	Management/arrange/business skills
Bai	rriers to develop	ing these values today:
11	(esteem/role models/ media)	Role models/media may not always show these values
12	(win ethic)	Increased emphasis on winning rather than taking part as key outcome/gamesmanship/sledging/taken more seriously
13	(opportunity)	Lack of opportunity such as limited funding / time (pressure on curriculum) / skill levels / seasonal
14	(provision)	Lack of provision such as limited/suitable equipment /facilities / suitably qualified coaches / transport
15	(organisation)	In most schools the organisation of games is done by PE /sport department limiting opportunities

Question Expected Answer	Mark
(d) Evaluate critically the impact of socio-cultural factors that have influenced the growth and development of association football from 1850 to today.	
A2 level descriptors	
 Level 4: a comprehensive answer (18 - 20 marks) 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:	
 a logical and detailed discussion of relevant factors; a very well structured and balanced answer; an understanding that working conditions, urban expansion and improved transport were key factors; an appreciation that improved transport was the most significant factor; clear reference to and analysis of more recent contemporary developments. 	
 Level 3: a competent answer (13 – 17 marks) 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 L2 are likely to include: a logical discussion of relevant factors; a well structured answer; a good understanding of a broad range of impacting factors; clear reference to the contemporary game. 	
 Level 2: a limited answer (8 – 12 marks) 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. 	
 Discriminators from L1 are likely to include: an understanding of factors other than transport improvements; more reference to contemporary developments. 	
 Level 1: a basic answer (0 – 7 marks) 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. 	

Que	stion	Evaluate critically the impact of socio-cultural factors that have		
		influenced the grou	wth and development of association football from	
		1850 to today.		
Indi	cative	e Content:		
	Grov	wth and development	: (with development points)	
	1	(numbers)	urbanisation/large number of people in one place	
	-	(captive audience	
	2	(provision for	provision for spectator	_
	-	spectator)	specialist facilities	
		opoolaloi)	terraces	
	3	(time)	Fewer working hours	_
	0	(une)	 more time/time to watch/play 	
			Saturday half day/Wednesday half day	
	4	(= ff =] = = =)	early closing movement	_
	4	(affordable)	Affordable/higher wages/cheap to play	
			can afford transport	
			entrance or gate money available	_
	5	(fixtures)	fixtures	
			 leagues/cups 	
			 competitions set up 	
	6	(transport)	improved transport	
			 able to get to (away) matches 	
			 (lead to) increased regularity 	
	7	(professionalism)	opportunities for professionalism	
		u ,	 pro. football a good job 	
			a chance to escape factory or urban	
			deprivation	
	8	(broken time	'broken time' payments	
	-	payments)	working class unable to afford to miss work	
			and were paid to play	
	9	(class)	became 'the people's game' or the working class	-
	•	(0.000)	game	
			middle class influenced game	
			game became more respectable	
			Corinthian casuals	
	10	(business)	business opportunity	-
	10	(business)	running a club	
	11	(media/literacy/	Improved literacy/communication	_
	11	communication)	increased media interest lead to publicity	
		communication)		
			 lead to people reading about team/s or individuals 	
·	10		individuals	_
	12	(rules/organisation)	game became standardised	
			more controlled	
			less violent	
			 ex-public schoolboys set up NGB/FA 	_
	13	(law and order)	increased law and order	
			 meant less gambling (on football) 	
			 game became socially acceptable 	
			 church acceptance 	
	14	(public schools)	Public school impact/university melting pot	
			 ex university men back to schools as 	
			assistant master	
			 spread to other countries 	

uestior		Evaluate critically the impact of socio-cultural factors that have influenced the growth and development of association football from 1850 to today.		
15	(teams)	Expansion through factory or church teams		
		or other example		
16	(technology/facilities)	Purpose built or specialist facilities for performer		
		 parks 		
		kit or equipment		
Мо	ore recently:	ł	_	
17	(commercialism)	Increased commercialisation		
		• dev/eg		
18	(media)	More media coverage/internet/influence		
		• dev / eg		
19	(minority groups)	Women's game/disability/ethnicity		
		• dev / eg		
20	(status)	Star status of top players/role models		
		• dev / eg		
21	(salary)	Salary scales/professionalism		
		• dev / eg		
22	(European players)	Bosman ruling/non-English players in Premier		
		league		
		dev / eg	_	
23	(technology)	Equipment/kit/facilities/increase in technology		
		dev / eg	_	
24	(Transport	International travel available for all		
	development)	dev / eg	_	
25	(Grass roots)	Grass roots scheme		
		• dev / eg		
		FA skill schools		
		Expansion of school sport	_	
26	(Rules/organisation)	Increase in number of fixture/competition/rule		
		change		
		• dev / eg		
		more officials		

tion on A		otudies (Option A2)	M
511 /			
(a)	are affected by Outline historic	es, participation and performance in physical activity historical and geographical factors. al and geographical factors in the UK and in Australia cipation and performance in physical activity.	
5 m	arks for 5 of:		
	o max 3 from UK:		
	e UK – historical:		
	o sub max 2		
1	(taking part)	Taking part traditionally more important than	
		winning/tradition of fair play or sportsmanship	
2	(public	Impact of 19 th century public schools/value of team	1
	schools)	games or teamwork	1
3	(amateurism)	Tradition of amateurism/professionalism as relatively	1
		new phenomenon in many sports	1
4	(class)	Class affects minority group participation/impact of	1
		hierarchical society	
5	(inventions)	Many 'sports' started in Britain	1
	e UK – geographi o sub max 2		
<u>5u</u> 6		Polatively amall equatry/abould be atraightforward to	
0	(size)	Relatively small country/should be straightforward to standardise initiatives for provision and participation	
7	(topography)	countryside influences opportunities	1
8	(climate)	(comparatively) unfavourable climate (for year round	
0	(ciinate)	outdoor activity or leading to seasonal play/need for	
		good indoor provision	
9	(dense pop)	(relatively) dense population/large towns and	
•		cities/need for appropriate provision for physical	
		activity	
10	(transport)	Good transport links should be favourable/increasing	
		road congestion unfavourable	
	o max 3 from Aus		
	stralia – historica	l:	
	b sub max 2		
11	(colonial/	Colonial influence/British sports adopted	
10	motherland)	Cignificance of defection Duitein in interretional	
12	(rivalry)	Significance of defeating Britain in international	
13	(frontioniam)	sport/history of Ashes Frontierism/pioneering spirit/bush culture	
	(frontierism)	1 91	
	stralia – geograpł o sub max 2	lical:	
CIT	J SUD IIIdx Z	Voot opuntry (different time zenee)/difficulty in	
	(size)		1
Sul 14	(size)	Vast country (different time zones)/difficulty in standardising initiatives/state autonomy in terms of	
	(size)	standardising initiatives/state autonomy in terms of	
14		standardising initiatives/state autonomy in terms of initiates for provision and participation/	
	(size) (topography)	 standardising initiatives/state autonomy in terms of initiates for provision and participation/ Varied topography gives excellent opportunity for 	
14 15	(topography)	 standardising initiatives/state autonomy in terms of initiates for provision and participation/ Varied topography gives excellent opportunity for varied activities (sea to ski) 	
14	(topography) (climate)	 standardising initiatives/state autonomy in terms of initiates for provision and participation/ Varied topography gives excellent opportunity for varied activities (sea to ski) Favourable climate 	
14 15 16	(topography) (climate) (sparse	 standardising initiatives/state autonomy in terms of initiates for provision and participation/ Varied topography gives excellent opportunity for varied activities (sea to ski) Favourable climate Most areas unpopulated/sparsely populated/vast 	
14 15 16	(topography) (climate)	 standardising initiatives/state autonomy in terms of initiates for provision and participation/ Varied topography gives excellent opportunity for varied activities (sea to ski) Favourable climate 	

stion	Expecte	d Answer		N
(b)	Compare those in t	the strategies to promote mass partici ne UK.	pation in Australia with	[
	5 marks fo	or 5 of:		
		Strategies in Australia:	Comparison with UK:	
1	(funding)	By government	By: lottery/government/publ ic private voluntary funding	
2	(initiatives)	Government initiatives or schemes/named initiatives: eg Active Australia or More Active Australia/Blue earth initiatives/Fitness Education Award/SSA/School Sports Network	Government initiatives or schemes/named initiatives: eg Sport action zones (SAZ)/PESSYP/SSCOs or other suitable example	
3	(agencies)	Australian Sports Commission (ASC)/sports development group/ACHPR	Sport England or other home country councils	
4	(media)	Encouraged by media/'sport' has high profile in media	Coverage traditionally dominated by football/coverage of other sports or sports of minority groups increasing (especially Sky or digital)	
5	(club links)	Efforts to increase sports club membership/support given to sports clubs to increase membership/sports linkage system	Work of governing bodies to attract members/school club links	
6	(equality)	Equality (of opportunity) encouraged/indigenous/disability/gend er programmes/minority groups	Same	
7	(school provision)	School provision/after school clubs/NC/modified games/fundamental motor skills/healthy lifestyle	Same	
8	(school opps)	Schools focus on participation for all in wide range of sports (non selective)	Schools focus on participation/competitiv e sport eroded in state system	
9	(role models)	Sports person in schools programme/role models into school (required to get funding)	Individual schools (or partnerships) arrange visits by elite performers	
1	(sharing)	Sharing of facilities eg schools and clubs	Same/eg schools and clubs or independent schools and state schools	

tion (c)	Expected An Describe Phys	swer sical Education in American	high schools. Compare	
(0)	Physical Education in the USA and in the UK.			
	5 marks for 5	of:		
	Sub max 2 for USA only:			
		PE in USA:	Comparison with UK:	
1	(focus on)	direct skill learning/fitness/training	participation/skills/holistic development/educational emphasis	
2	(assessment)	(focus on) testing or measurement	(less formal) teacher assessment	
3	(exams)	Limited/none at school level	Widespread examinations in PE	
4	(prof dev)	provided by superintendent or state	provided via public or private routes	
5	(good practice)	Blue Ribband Schools/ Beacon Schools	Specialist sports colleges/Beacon Schools/independent school that focus on sport	
6	(admin)	Decentralised admin	Decentralised admin/becoming more centralised	
7	(funding)	State funded	State funded/schools need or seek additional funding	
8	(control)	Controlled by school board	Schools (increasingly) autonomous	
9	(inspection)	Inspected by superintendent (of school board)	Inspection by Ofsted	
10	(NC)	No National curriculum/optional	National curriculum	
11	(status)	PE lower status (than sport)	PE higher status	

Ques	stion	Expected Answer	Mark
2	(d)	Compare how schools and colleges prepare young people for participation in professional sport in the USA and the UK. Evaluate the effectiveness of each system.	
A2 le	evel d	escriptors	
Leve	l 4: a	comprehensive answer (18 – 20 marks)	
•	detai	led knowledge & excellent understanding;	
•		led analysis and excellent critical evaluation;	
•		argued, independent opinion and judgements which are well supported by ant practical examples;	
•		accurate use of technical and specialist vocabulary;	
•	-	standard of written communication throughout.	
Disc		ators from L3 are likely to include:	
•	0	ar critical evaluation of the issue;	
•		quality independent opinion/judgement of value of the USA (or UK) system; ples of individuals who have experienced the system or now either system	
		helped in practice (eg successful Olympians);	
•	a mo	re structured answer.	
Leve		competent answer (13 – 17 marks)	
•	•	knowledge & clear understanding; analysis and critical evaluation;	
•	•	bendent opinions and judgements will be present but may not always be	
		orted by relevant practical examples;	
•	•	rally accurate use of technical and specialist vocabulary;	
•	writte	en communication is generally fluent with few errors.	
Disc		ators from L2 are likely to include:	
•		e critical evaluation of the two systems;	
•		npt at value judgements ral direct comparisons of the systems.	
•			
Leve		limited answer (8 – 12 marks)	
•		d knowledge & understanding; e evidence of analysis and critical evaluation;	
•		on and judgement given but often unsupported by relevant practical	
	•	iples;	
•		nical and specialist vocabulary used with limited success;	
•	writte	en communication lacks fluency and contains errors.	
Disc		ators from L1 are likely to include:	
•		ased attempt at comparison between USA and UK;	
•	some	e attempt at evaluation.	
Leve		basic answer (0 – 7 marks)	
•		knowledge & little understanding;	
•		relevant analysis or critical evaluation;	
•		or no attempt to give opinion or judgement; or no attempt to use technical and specialist vocabulary;	
•		s in written communication will be intrusive.	

stion	participation in p	chools and colleges pre professional sport in the s of each system.	pare young people for e USA and the UK. Evaluate	Mark
c for U c for U DEVEL 4 for U	omparative; IS DEV; IK DEV	WITHOUT COMPARISO	DN	
Hov		es help to prepare your	ng people for participation in	[20]
	•	in USA:	in UK:	
1	(excellence)	School/colleges (recognised as) centres of sport excellence • dev / eg	 Not normally some examples eg Millfield, Loughborough, Bath, UWIC Devolved national Institutes eg EIS/apprenticeships or academies linked to top level clubs 	
2	(scholarship)	College scholarships for elite high school • or overseas students/ binding contracts • more time to sport than study.	Not on same scale • some bursaries • (eg TASS)/lottery funding/World Class Programme • government or exchequer funding	
3	(special admit)	Special admit programmes • for those who are elite but academically under qualified	Unis linked to Institutes (eg Bath) adding performer to appropriate courses or extend length of course 	
4	(coaching)	Specialist or high quality coaching • dev / eg	Less so at school/uni level • Yes via institutes • dev / eg	
5	(H & F)	Hire and fire • (for athletic directors or coaches) • incentives to win	Not so at school/uni level • Yes at institute level • dev / eg	
6	(reflection)	High School/College sport is a reflection of the professional game • dev / eg	Much less so at school/uni level • dev / eg	
7	(status)	Sport high status at	Variable (between schools or	

Question	Compare how schools and colleges prepare young people for participation in professional sport in the USA and the UK. Evaluate the effectiveness of each system.			Mark
		this level • dev / eg	unis) • dev / eg	
8	(Specialisation)	student/student athlete will specialise or focus on one sport • dev / eg	Increasingly so/most school or uni sport less elite more for participation or social dev / eg 	
9	(business)	College sport is big business • (like pro sport)/college generate own funding	Less so school sport under pressure of limited funding in many schools uni sport funded by students and grants	
10	(facilities)	Excellent facilities/stadia/ • equivalent to pro sport • dev / eg	Less so – more variable • Yes at institutes and nat centres • dev / eg	
11	(equipment)	High quality or pro standard equipment • dev / eg	 Less so – more variable Yes at institutes and nat centres 	
12	(competition)	Competition or matches replicate pro standards • dev / eg • varsity only	Not so • (accept exceptions eg Harpbury) • dev / eg • multiple teams (eg 1 st /2 nd team)	
13	(medicine)	Medical services • physiotherapy /medicine/sur gery etc available	 Less so – more variable or ad hoc individual examples eg county netball or hockey squads with links to medics Yes at institutes and national centres 	
14	(media)	Media coverage of College sport/high profile • Media attraction • Large crowds • paying spectators	Not so • free to watch • small crowds (parents)	
15	(Lombardianism)	(driven by) Lombardian or win ethic (all levels) • radical ethic • dev / eg	Equally so at elite Institute level/emphasis generally on participation. • dev / eg	

Question	Compare how schools and colleges prepare young people for participation in professional sport in the USA and the UK. Evaluate the effectiveness of each system.			Mark
16	(pro-draft)	Pro-draft outstanding college players signed to pro teams dev / eg 	Not same in UK apprenticeships or academies linked to top level clubs (if mark not given in 1 above) 	

Que	stion	Expected Answer	Mark
Sec	tion B -	- Sports Psychology (Option B1)	
3	perfo Using perfo 4 mai	need to achieve' is often viewed as necessary for good sports rmance both for individuals and for members of a team. g practical examples describe the features of a need to achieve rmer. rks 4 marks for: ical examples to be used throughout – sub max of 2 marks with no ples)	
(a)	1	Innate personality characteristics/natural trait/enduring	[4]
	2	Approach behaviour/is motivated to succeed – hockey player keen to do well.	
	3	Seeks challenges/ excitement/ risks – young person wants to go rock climbing.	
	4	Likes competition/is competitive – netball player wants to win the tournament.	
	5	High levels of confidence/self efficacy/mastery orientation – swimmer wants to enter the competition.	
	6	Is persistent on task/doesn't give up (easily)/determined – tennis player fights against a losing position.	
	7	Takes responsibility for actions – footballer accepts penalty is his fault.	
	8	Likes feedback/likes evaluation/likes/seeks an audience – cricket player asks for feedback.	
	9	The more competitive/the more important the event the more the need to achieve is motivated. – a player in a cup final tries harder.	
	10	Not afraid of failure/see failure as route to success – footballer misses a penalty but learns from their mistake/attribution (if explained correctly)	

estion Exp	Expected Answer lain the effects of having low self-efficacy on sustaining a balanced,	Mar [5]
hea	Ithy lifestyle. Describe two strategies to raise self-efficacy to enable a ng person to adopt a balanced, healthy lifestyle.	
	rks for: cts) sub max 3 marks	
1	(Low confidence) leads to learned helplessness/giving up on participation.	-
2	Does not value a healthy lifestyle/associates with personal failure/low self esteem/negative self-image	-
3	Can lead to dysfunctional behaviour/lifestyle/drug taking/smoking excessive drinking/fast food diet/obesity/being unhealthy	
4	Leads to affiliation with other non-participators/falling in with the 'wrong crowd'/seeks counter culture.	
5	Can influence other people towards non-participation.	
TW	rategies) sub max 2 marks (accept practical equivalents). MARK FIRST O ONLY	
6	Encourage attribution of any previous failure or learned helplessness to controllable/internal factors/unstable factors/lack of effort/inappropriate goals	
7	Give encouragement/praise/reward/positive reinforcement lifestyle shows aspects of healthy living/verbal persuasion	
8	Educate/inspire/show what physical activity can do to enhance well-being and health.	
9	Show consequences of poor lifestyle.	
10	Encourage joining a club/taking up a new activity that may interest them/make them aware of the varied activities out there.	
11	Give them anxiety management strategies/emotional control/control arousal	
12	Give early success to raise confidence/encourage small achievable goals at first/highlight previous success	
13	See others achieve/vicarious experiences]

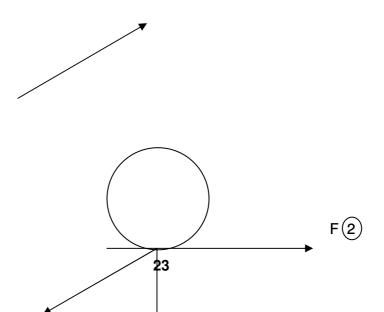
Que	stion	Expected Answer	Mark
(c)	Using	re 1 shows Chelladurai's multi-dimensional model of leadership. g the model in figure 1 explain how effective leadership can encourage cipation.	[6]
	6 ma 6 ma	rks rks for:	
	1	 (Situational characteristics) Effective leadership will take into account the situation. Or the environmental circumstances may dictate a certain strategy of leadership to encourage participation. Or eg dangerous environment so autocratic style needed. 	-
	2	(Leader characteristics) Effective leadership is related to the personality of the leader Or the personality/experience/ability of the leader will influence whether a person participates or not.	
	3	(Member characteristics) Effective leadership is related to the nature/type /motivation of group members. Or they may be friendly and therefore encouraging.	
	4	(Required behaviour) the style of leadership that is suitable/appropriate will either motivate or demotivation to participate.	
	5	(Actual behaviour) the leader's behaviour can have a direct impact on participation	
	6	(Preferred behaviour) what is wanted from group members Or if you lead the way/style that the group members want you to then you may motivate / win hearts and minds and increase participation.	-
	7	Consequences are good/more participation/more satisfaction/enjoyment if the needs of the group match the leader's behaviour	-
	8	Consequences are good/more participation/more satisfaction/enjoyment if the situational demands are met by the leader's behaviour.	1
	9	Leaders should be flexible/can change/can adapt to differing styles (to accommodate the differing needs to improve participation and enjoyment.)	1
	10	You are more likely to participate if you are satisfied/pleased/see the value with the leader/see leader as a role model]

Question Expected Answer	Mark
(d) Describe theories related to personality and how they affect sports	[20]
performance. Evaluate critically personality profiling in sport.	
A2 level descriptors	
Level 4: a comprehensive answer (18 – 20 marks)	
detailed knowledge & excellent understanding;	
detailed analysis/critical evaluation and excellent critical evaluation;	
 well-argued, independent opinion and judgements which are well supported by relevant practical examples; 	
 relevant practical examples; very accurate use of technical and specialist vocabulary; 	
 high standard of written communication throughout. 	
Discriminators from L3 are likely to include:	
all three theories well represented;	
 consistent links to performance; 	
good detail in critical analysis;	
• at the top end of this level relevant positive and negative points made in the	
critical analysis.	
Level 3: a competent answer (13 – 17 marks)	
 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 L2 are likely to include:	
 all three theories represented but lack detail at times; 	
 links to performance; 	
 some detail in critical analysis but mostly if not all negative points made. 	
Level 2: a limited answer (8 – 12 marks)	
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. 	
Diseviningtove from 1.1 ave likely to include:	
Discriminators from L1 are likely to include:	н.
 two theories represented but lack detail at times or all three with very little detail 	11,
 very few links to performance; little detail in critical analysis and all pogative points made. 	
little detail in critical analysis and all negative points made.	
Level 1: a basic answer (0 – 7marks)	
 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. 	

Question	Describe theories related to personality and how they affect sports performance. Evaluate critically personality profiling in sport.	Mark	
Indicative	content:		
naturaType	ait perspectives al/innate behaviours A/Type B nck/Cattell described		
• Exam	lves characteristics that are stable and enduring/behaviour is generalised ples of these eg always aggressive ort you will display similar behaviours to other situations.		
personali	erformance may be affected positively or negatively by your innate ty characteristic Examples eg extroversion may help with team sports		
•	earning) Social learning theory (Bandura) We observe and copy behaviour. Copy significant others/role models. In sport this may be the copying the most successful/high profile/reinforcement		
Especcan b	erformance may be affected by other people cially if significant e positive if others show functional behaviour e negative if they show dysfunctional behaviour.		
 chara 	tionist) – Interactionist theory (Hollander) cteristics determined by interaction between traits and situation d interaction with the environment.		
	r changes depending on the demands of the situation/environment. e demands may be perceptions rather than real		
 Exam win. Sport 	ou may be competitive because the situation demands that you are. ples eg in a netball match you show competitiveness because the aim is to s performance may be affected positively or negatively depending how the ormer perceives the requirements of the situation.		
	9 Other theories of personality used eg FreudPractical examples		
(negative) 10 Profili • do no 11 Resul differe	aluation of profiling) ng results too vague/unreliable t link cause and effect. ts cannot be generalised (to the behaviours of others)/you act differently in ent situations external validity		
	le not representative.		

 are not true to real life/do not relate to sports performance 	12 Results lack ecological validity	
 results explained differently by different people unreliable interpretations/stereotyping 14 Links between personality and sports performance/sport choice/task persistence too tenuous sceptical approach 15 Too many demand characteristics/lying (on questionnaires) behaviour of performer may be altered due to profiling/being observed internally invalid. (positive) 16 There are some links between personality and performance credulous approach eg Profiles of mood states (POMS) show links between vigour/optimism and success in sport. 17 Knowing about a performer's personality will help to motivate them Practical examples 18 Knowing about a performer's personality will help to understand them/put them in right sport/position Practical examples 19 Knowing about a performer's personality will help to control their anxiety/arousal 	0 ,	
 unreliable interpretations/stereotyping Links between personality and sports performance/sport choice/task persistence too tenuous sceptical approach Too many demand characteristics/lying (on questionnaires) behaviour of performer may be altered due to profiling/being observed internally invalid. (positive) There are some links between personality and performance credulous approach eg Profiles of mood states (POMS) show links between vigour/optimism and success in sport. Knowing about a performer's personality will help to motivate them Practical examples Knowing about a performer's personality will help to understand them/put them in right sport/position Practical examples Knowing about a performer's personality will help to control their anxiety/arousal 	13 Profiling too subjective	
 14 Links between personality and sports performance/sport choice/task persistence too tenuous sceptical approach 15 Too many demand characteristics/lying (on questionnaires) behaviour of performer may be altered due to profiling/being observed internally invalid. (positive) 16 There are some links between personality and performance credulous approach eg Profiles of mood states (POMS) show links between vigour/optimism and success in sport. 17 Knowing about a performer's personality will help to motivate them Practical examples Knowing about a performer's personality will help to understand them/put them in right sport/position Practical examples 19 Knowing about a performer's personality will help to control their anxiety/arousal 	 results explained differently by different people 	
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19 Knowing about a performer's personality will help to control their anxiety/arousal		
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• Practical examples		
	• Practical examples	
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	stion Expected Answer	Mark
Sec	tion B – Biomechanics (Option B2)	
4	Sketch a free body diagram showing all the forces acting on the hockey ball as it is being flicked. Using Newton's Laws of Motion, explain the effect of the resultant force acting on the hockey ball. 6 marks for:	
(a)	1 W/weight acting downwards from CM.	
(a)	2 F/force acting from back edge of ball.	
	 AR/air resistance acting in opposite direction to motion. 	
	Direction of motion	
	(Points must relate to correct law)	
	4 Newton 1 - The ball remains stationary until it is flicked.	
	5 Newton 2 - The ball will accelerate proportionately to the size of the force	
	acting upon it/larger the force the faster/further it will go.	
	6 Newton 2 - The ball will accelerate in the direction of the force.	
	7 Newton 3 - The stick applies a force to the ball, therefore the ball applies	
	an equal and opposite force to the stick.	



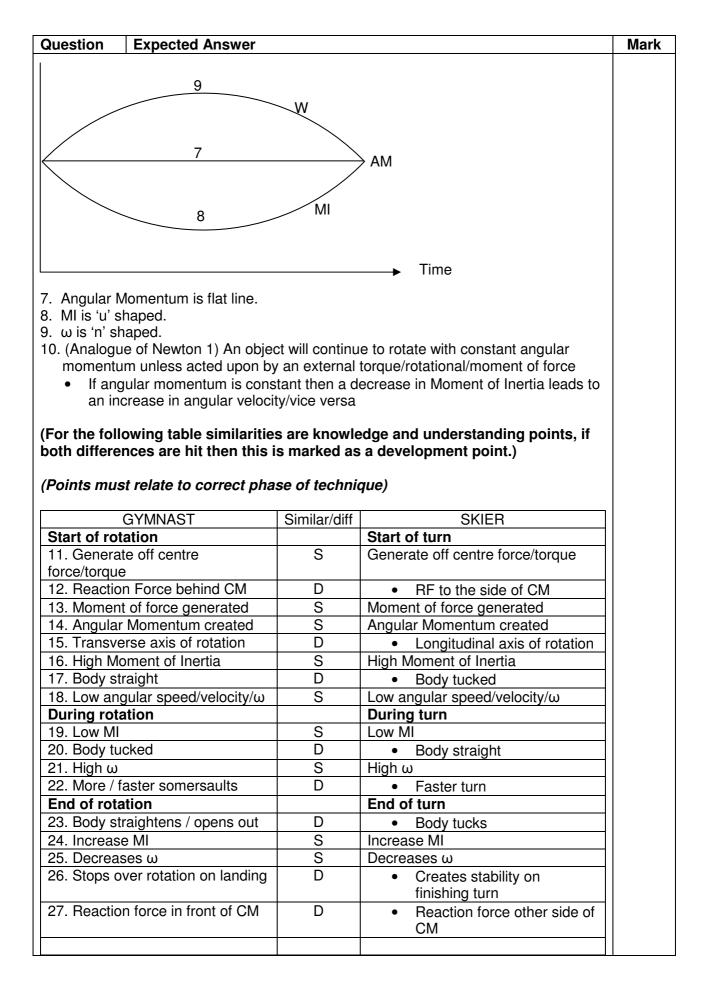
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(a)	1 2 3	W/weight acting downwards from CM. F/force acting from back edge of ball. AR/air resistance acting in opposite direction to motion.	
		Direction of motion	
		F2	
		AR (3) (1) W	
	/Doi	nto must relate to correct low)	
	4	nts must relate to correct law) Newton 1 - The ball remains stationary until it is flicked.	
	5	Newton 2 - The ball will accelerate proportionately to the size of the force	
		acting upon it/larger the force the faster/further it will go.	
	6	Newton 2 - The ball will accelerate in the direction of the force.	
	7	Newton 3 - The stick applies a force to the ball, therefore the ball applies an equal and opposite force to the stick.	
(b)	duri	cribe the factors that affect the fluid friction acting against a swimmer ng 100m backstroke. arks in total from: (accept opposites where appropriate)	[5]
	1	(Speed/velocity of swimmer) Faster the swimmer the greater the FF.	
	2	(Shape of swimmer) Flatter body position/tear drop shape leads to less	
		FF.	
	3	(Shape of swimmer) Reduced frontal cross sectional area leads to less FF.	
	4	(Shape of swimmer) Dolphin action leads to less FF.	
	5	(Surface of swimmer) Smoother/shaving/special swimwear/hats leads to less FF.	
	6	(Type of water) Less dense water leads to less FF.	
	7	(Swimming underwater) Swimming underwater leads to less FF.	

Question	Expected Answer	Mark
badr	c) Compare the shape of the flight path of a shot putt with that of a fast moving badminton shuttle. Explain the reasons for the differences in their respective flight paths.	
2. bec 3. bec 4. Shu 5. bec	rks: t follows (nearly) parabolic/symmetrical flight path ause air resistance is negligible ause weight is the dominant force/shot has low speed. ttlecock follows non parabolic/asymmetrical flight path ause air resistance is dominant force as ed of shuttle is large/weight is negligible.	

	Mark [20]
to control the performance of the somersault with that of a skier performing a slalom turn.	
A2 level descriptors	
 Level 4: a comprehensive answer (18 – 20 marks) detailed knowledge & excellent understanding; detailed analysis/critical evaluation 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: good knowledge of the Analogue of Newton's First Law of Motion; detailed understanding of the application of the Law on Conservation of Angular Momentum to the somersault and ski turn with similarities and differences. To achieve top of this range candidate will be expected to cover start, during and end of skill; detailed understanding of angular velocity, moment of inertia and angular momentum and an accurate graph; 	
• good use of technical language through out the answer.	
 Level 3: a competent answer (13 – 17 marks) 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 L2 are likely to include:	
 a reasonably good explanation of the Law of Conservation of Angular Momentum applied to the somersault or ski turn with some attempt at a comparison. To achieve top end of this level candidates should show similarities and differences; There is evidence of understanding of angular velocity, moment of inertia and angular momentum. The graph shows some correct aspects; Some use of correct technical language. 	
Level 2: a limited answer (8 – 12 marks)	
 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. 	

Question	Expected Answer	Mark
Discriminators from L1 are likely to include:		
	mpt to explain the Lew of Conservation of Momentum using from technical	
	ge in either the somersault or ski turn;	
	nderstanding of angular velocity, moment of inertia and angular	
	tum and how rotation is generated;	
• there is	an attempt to use correct technical language in places.	
l ovol 1 · a ba	sic answer (0 – 7 marks)	
	nowledge & little understanding;	
	evant analysis or critical evaluation;	
	no attempt to give opinion or judgement;	
	no attempt to use technical and specialist vocabulary;	
	n written communication will be intrusive.	
	nt by the terms Angular Velocity, Moment of Inertia and Angular	
	and sketch a graph showing their relationship when a gymnast	
	omersault from take off to landing.	
Compare a g	ymnast's use of the Analogue of Newton's First Law of Motion to	
	performance of the somersault with that of a skier performing a	
slalom turn.		
Indicative co	ontent:	
(Angular vel	ocity / ω)	
1. Rate of sp	in/how fast an object is spinning/rotating/turning.	
	of change in angle / angular distance/displacement travelled per unit	
	$/\omega = \theta/t.$	
 Mea 	sured in radss ⁻¹ or rads/sec	
(Momont of	nortio / L /MI)	
	nertia / I /MI) e of an object to rotation/spin/turn.	
	tional equivalent of mass/inertia	
	on the distribution of mass / how far mass is from the axis of rotation.	
•	her away mass is from axis of rotation the greater MI / or opposite.	
	Σmr^2 .	
	sured in kgm ² .	
	I the greater the force required to rotate / stop rotating	
	upon mass of object	
	er mass equals greater MI.	
(Angular Mo	mentum / AM)	
6. Measure	of angular motion of an object.	
	$=$ MI x AV / AM $=$ I ω .	
 Mea 	sured in kgm ² radss ⁻¹ .	



-	tion Expected Answer	Mark
Section	on B – Exercise and Sport Physiology	
(a)	 Define the term VO₂ max and identify three factors that affect a performer's VO₂ max 4 marks in total (AO1) submax 1 mark; (define VO2 max) 1 is the maximal volume of oxygen that can be utilised in one minute (during maximal exercise) (measured in ml/kg/min) 	[4]
	Submax 3 marks; (factors affecting VO2 max) Mark first 3 only2respiratory factors3cardiac factors4vascular factors5muscular factors/fibre types6training/activity levels/altitude7age8gender	
	9 hereditary/physiological make-up	
(b)	Interval training is a popular method of training. Describe an interval training session designed to improve maximal strength. Explain the benefits that interval training has over other methods of training. 5 marks in total Submax 3 marks (interval training) 1. (Type) Weight training. 2. (Work period 1) 1 – 6 reps. 3. (Work period 2) 3 – 5 sets. 4. (Intensity) 1 – 6RM/70%+ RM 5. (Work-relief ratio) 1 : 3 plus/2-5 minutes	[5]
	Submax 2 marks (benefits)	
	 be used to develop anaerobic and/or aerobic systems. adds variety to a training programme / flexible training method/prevent boredom allows quality / intensity of work to be maintained / more work completed. onset of fatigue is delayed / allows time for recovery / removal of lactic 	

Que		Expected Answer	Mark		
(c)	What is meant by the term obesity and to what extent does being obese impact on the health of an individual?				
	6 m	arks in total			
	Sub	n max 2 marks (def obesity)			
	1	a condition where there is excess body weight due to an abnormal accumulation of fat/eating more calories than are used over a period of time			
	2 Sub	defined as a body mass index (BMI) of 30 or more a max 5 marks (how obesity affects health)			
	3	excess weight makes it more difficult to exercise (as the body has to work harder to carry additional weight)			
	4	contributes to CHD/heart attacks/problems/angina/stroke			
	5 6	build up of low density lipoproteins (LDL)/cholesterol this can lead to development of fatty plaques in arteries / atherosclerosis/arteriosclorosis			
	7	raises risk of cancer			
	8	more likely to develop (type 2) diabetes / overweight people develop insulin resistance / high blood glucose			
	9	develop fatty liver disease/fat accumulates round the liver leading to inflammation			
	10	increases risk of hypertension/high blood pressure/arteries become partially blocked by fatty deposits/narrows lumen of artery/greater peripheral resistance			
	11	develop deep vein thrombosis			
	12	develop respiratory problems, breathlessness/sleep apnoea			
	13	back pain/immobility/lordosis/posture			
	14	joint degeneration/osteoarthritis			
	15 16	some athletes are considered obese because of high BMI; leads to low self-esteem/psychological problems/bullying			

Que	stion Expected Answer	Mark
(d)	Examine the information in Fig 1.1 and explain the changes in the contribution of each of the energy systems for the three different events. Explain why the percentage contribution of each energy system would probably change for a recreational runner performing the same distances?	[20]
	20 marks in total	
Leve	el 4: a comprehensive answer (18 – 20 marks)	
•	detailed knowledge & excellent understanding;	
•	detailed analysis/critical evaluation 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.	
Disc	riminators from L3 are likely to include:	
•	effective application of the concept of the energy continuum to different events	
	with regard to individual differences	
•	a sound knowledge of energy system thresholds in relation to duration and intensity	
•	thorough knowledge of physiological adaptations and their impact on energy system use	
•	thorough balanced discussion of all three energy systems.	
Leve • • •	el 3: a competent answer (13 – 17 marks) 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.	
Disc	riminators from L2 are likely to include:	
•	good application of the concept of the energy continuum to different events;	
•	sound examination of the table and explanation of trends; awareness of a range of adaptations and their impact on energy system use.	
•	awareness of a range of adaptations and their impact of energy system use.	
Leve	el 2: a limited answer (8 – 12 marks)	
•	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 L1 are likely to include:	
•	an awareness of the concept of the energy continuum in relation to different events	
•	a basic examination of the table and description trends	
•	provide a limited number of adaptations and their impact on at least one energy system.	

Question Expected Answer	Mark
Level 1: a basic answer (0 – 7 marks)	
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.	
Examine the information in Fig 1.1 and explain the changes in the contribution of	
each of the energy systems for the three different events.	
Explain why the percentage contribution of each energy system would probably change for a recreational runner performing the same distances?	
change for a recreational runner performing the same distances?	
Indicative content:	
Changes in energy systems	
1. Energy continuum.	
Contribution of each energy system depends on intensity and duration of	
exercise.	
2. As distance/duration increases aerobic system contributes more.	
Because intensity decreases.	
3. As distance/duration decreases anaerobic systems contribute more.	
 Because intensity increases. 	
4. 100m relies heavily on PC/LA/anaerobic systems.	
Intensity is very high/energy required quickly	
No oxygen is required.	
 Few reactions/takes place in sarcoplasm. 800m relies loss on anagraphic/PC/LA systems / more on agraphic system 	
 5. 800m relies less on anaerobic/PC/LA systems / more on aerobic system Ltd PC stores / PC threshold is up to 10 secs. 	
 Over-reliance on LA would cause fatigue / intensity to be lowered. 	
 LA system yield only 2ATP so inefficient. 	
6. 5000m relies mainly on aerobic system.	
 More energy required over a prolonged period of time. 	
Aerobic breakdown of CHO / fats provide a lot more energy/34-36 ATP	
 Anaerobic systems only come into play at start/end of race. 	
Reasons for changes for recreational runner;	
7. Recreation runner not as fit.	
 Not performed same amount of training. 	
 Not experienced same physiological adaptions. 	
Will have lower VO2max / aerobic capacity / endurance.	
8. Recreation runner cannot work at same intensity for as long/lower alactacid/PC	
threshold	
Smaller PC stores.	
9. Recreation runner's OBLA / anaerobic threshold will occur at a lower intensity/ be	
lower/LA system used earlier	
Less oxygen supply to / uptake by muscles	
Lower tolerance to LA accumulation.	
 Slower removal of LA. 10. Recreation runner will have less efficient muscular system/less efficient aerobic 	
energy production	
Less myoglobin	
Less mitochondria	
Less aerobic enzymes	

Question Expected Answer	Mark
11. Recreational runner will have less efficient cardiac system/smaller/weaker heart	
Lower SV / COmax/Qmax	
Higher HRrest.	
12. Recreation runner will have smaller O2 carrying capacity.	
Less RBC / Hb.	
Smaller blood volume.	
13. Recreation runner will have less efficient vascular system.	
Weaker / less elastic arterial walls.	
 Less efficient vascular shunt mechanism. 	
 Less efficient buffering system – decreased tolerance to LA 	
 Less capillarisation – reduced gaseous exchange at muscles/internal respiration 	
14. Recreation runner will have less efficient respiratory system / lungs/reduced	
gaseous exchange in lungs/external respiration	
Smaller lung volumes.	
Weaker respiratory muscles.	
Lower density of capillaries at alveoli.	
15. Recreation runner will have less muscular endurance.	
Lower glycogen stores.	
Lower triglyceride stores.	
16. Recreation runner will have less muscle mass.	
Weaker force of contraction.	
Slower running speed.	