

GCE

Physical Education

H555/02: Psychological factors affecting performance

Advanced GCE

Mark Scheme for November 2020

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

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

Mark schemes should be read in conjunction with the published question papers and the report on the examination.

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1. Annotations used in the detailed Mark Scheme

Annotation	Description	Annotation	Description
	Tick	KU	Knowledge and understanding / indicates AO1 on Q8
×	Cross	EG	Example/Reference / indicates AO2 on Q8
BOD	Benefit of doubt	DEV	Development / indicates AO3 on Q8
TV	Too vague	L1	Level 1 response on Q8
REP	Repeat	L2	Level 2 response on Q8
5	Indicates sub-max reached where relevant	L3	Level 3 response on Q8
SEEN	Noted but no credit given	BP	Blank page
IRRL	Significant amount of material which doesn't answer the question		

- Sub-maxes are indicated with **S**; the guidance section of the mark scheme shows which questions these are relevant to.
- **KU/EG/DEV** used <u>instead</u> of ticks on the extended response question to indicate where knowledge or development points from the indicative content have been made.
- On this extended response question, one KU/EG/DEV does not necessarily equate to one mark being awarded; the marking is based on a levels of response mark scheme which awards a level and mark holistically based upon the quality of the response overall against the levels descriptors.

		Section A		
Question		Answer	Marks	Guidance
1	Two marks from	n:	2 (AO2)	Accept any suitable example
	1. Massed practice example	A tennis player repeatedly rehearsing the serve without a rest period		Examples must relate to the skill being practiced rather than a sport.
	2. Distributed practice example	A basketball player doing ten free throws then resting, then repeating free throws. Or A rugby player rehearsing kicking for 6 mins then having a rest/distraction by playing Frisbee, then returning to kicks		
2	One mark from	:	2 (AO1)	
	1. Performand	e As arousal increases, performance increases/ improves		
	2 Dominant habit/response	As arousal increases, emission of dominant response increases		
	3 Skilful	Experts dominant response is skilful / correct		
3	Two marks from	n:	2 (AO2)	Mark 1st two only
	1. Ability 2. Luck 3. Task difficulty 1. Pitch 2. Referee 3. Weather	e.g. I am/not a fast sprinter e.g. We were unlucky to lose todays football game /lucky to win e.g. We were playing a much lower ranked team or e.g. Opposition are top of the league e.g. The pitch was in good condition / slippy e.g. The referee was biased against us e.g. we lost because the weather was awful		Accept: other relevant practical examples and attributions given for a win or a loss
	4. Form	e.g. our rugby superstar wasn't on form today		

		Section A		
Question		Answer	Marks	Guidance
4	Two	marks from:	2 (AO1)	Mark 1st two only
	1.	Motivated / enthusiastic / persistent	(AO1)	Do not accept:
	2.	Clear goal / vision / organised		Good communication skills
	3.	Empathy / understanding of other's needs / can see alternative points of view		(RQ)
	4.	Good knowledge of the sport		
	5.	Charisma / motivating / has presence / inspiring / is respected		
	6.	Ambitious		
	7.	Well-developed perceptual / decision making skills.		
	8.	Confident		
	9.	Being good at the sport / high ability / talented / experienced (at the sport or leadership)		
	10.	Flexible / adaptable / changes leadership styles		
	11.	Listening skills		

5	Two marks from:		2	Mark 1st two only
	1. Weapons / objects	e.g. Ice hockey stick / Hockey stick / golf club / baseball bat / opposition shirt	(AO2)	Accept other suitable practical
	2. Nature of game / sport	Boxing / Ice Hockey / Rugby		examples
	3. Places	Playing at a football pitch where you've been injured in a previous fixture / boxing ring		
	4. People	Playing rugby against a close rival / being provoked by someone verbally abusing you in rugby / high tackle in rugby / being fouled with a bad tackle in football		
	5. Nature of event	Derby match		
	6. Perceived unfairness	Incorrect referee decision		
	7. Witnessing violence	Seeing team mate punched		

Question			Answer	Marks	Guidance
6	(a)	Six marks from:		6 (AO2)	Accept any suitable examples as long as
		Simple skill example	Running / forward roll / sprint start / long jump / front crawl		justification is correct
		2. Reason	Doesn't require much decision making / perception / info processing / judgments or low perceptual load or Technically easy		Do not accept: 'Easy' on it's own for pt 2
		3. Closed skill example	Free throw in basketball / Badminton serve / 100m sprint		
		4. Reason	Not affected by environment or movement patterns don't change / are fixed		
		5. Fine skill example	Throwing a dart / finger action in pistol shooting / wrist action in bowling / snooker shot / shot in archery		
		6. Reason	Small muscle movements or precision is important		

(b)	(i)	Three marks from:		3 (AO2)	Do not accept: Positive reinforcement
		1. Connectionist / S- R bond	The badminton player learns to connect the stimulus of the high shuttle cock to the response of performing a smash.		(RQ)
		2. Manipulation of environment	Coach could draw a large chalk circle on the floor to aim smashes into		
		3. Shaping	Coach praises that the player used the correct smash action even though he hit the net		Points must be applied to sporting example
		4. Trial and error	The badminton player learns through trial and error / experimenting with different ways of smashing the shuttlecock		Allow multiple points embedded in same
		5. Negative Reinforcement	The teacher will stop telling / shouting at them to move into the correct position when the smash is performed well		example as long as applied to the sporting context
		6. Punishment / law of effect - annoyer	When the teacher shouts at the player for hitting the shuttle into the net they will learn not to hit the shuttle the same way again		given.
		7. Thorndikes laws / law of readiness / law of exercise	The player needs to practice serves to learn them / strengthen S – R bond or		
		or oxoroico	The player needs to be physically / mentally ready to learn to smash in order to learn successfully		

(b)	(ii)	Two marks from:			2 (AO3)	Submax 1 mark for just positive or just negative
			1. Effective (+)	Effective as rewar S-R bond	ds reinforce the type of behaviour required /		points
			2. Easy (+)	Can be easy to give	ve, e.g. stickers / badges / praise		
			3. Young / beginners (+)	Very effective for y learning	young performers / in early stages of skill		
			4. Quick (+)	Can speed up the	process of learning a new skill		
			5. Motivating (+)	Rewards motivate failing	people / give incentive if trial and error is		
			6. Take away enjoyment (-)	for its own sake /	me more important than doing the activity enjoyment of activity		
			7. Incorrect timing (-)	If used at the wron bond	ng time can strengthen an incorrect S-R		
			8. Expect	Could expect rewa	ards every time they learn a new skill		
			rewards (-)	or	1.00		
				available	earn a new skill unless there is a reward		
				or			
					out participation / motivation can be lost		
				or	meaningless / ignored if overused		
		473		Treward becomes i	nearingless / ignored ii overdsed		
(c)	(i)	Three marks from:			3	Each stage must be named
			1. STSS/Sensory	memory/register	Very large / unlimited	(AO1)	in order to gain the mark.
			2. STM		5-9 items / 7+/- 2 items		
			3. LTM		Limitless / endless / unlimited		
		(ii)	Two marks from:				Mark 1st two only
			1. Chunking /	<u> </u>			Accept, montal valuation
				/ practice / repetition	1		Accept: mental rehearsal
			3. Association				for pt 2.
				meaningful			
			5. Avoid over	load			

(d)	Four marks from:		4 (AO3)	Accept: Answers that refer
	1. Negative (+)	Informs them what they are doing wrong / need to change	(AO3)	to 'performer' (they don't have to state expert)
	2. Negative (+)	Helps them to fine tune performance more / make those final improvements		nave to state expert)
	3. Negative (+)	Could motivate them to improve more / prevents drive reduction / shouldn't lose motivation		Sub-max of 3 for each area
	4. Negative (-)	Could demotivate some experts (if overused)		
	5. Negative (-)	Doesn't necessarily tell a performer what they need to do, it could just tell them what they are doing wrong		
	6. Negative (-)	If feedback is inaccurate can hinder performance		
	7. Negative (confidence)	Shouldn't lower self-confidence (in an expert)		
	8. Negative feedback (expert)	May focus more on negative feedback as they are expert performer or effective if given by an expert / provide their own negative feedback		
	0			
	9. KOP (+)	Helps them to understand 'how' to refine technique / which parts of technique to repeat		
	10. KOP (+)	If received during performance (concurrent), it allows adjustments of the movement whilst performing / immediately		
	11. KOP (+)	Can inform that the technique is correct even if the outcome is wrong		
	12. KOP (-)	If feedback is inaccurate can be detrimental to performance		
	13. KOP (-)	Doesn't inform the expert of the end result /outcome		
	14. KOP	Experts can also gain KOP through kinaesthetic awareness /		
1	(intrinsic)	intrinsically		

7	(a)	(i)	One mark from:		1 (AO1)	
			1. Definition	What makes a person unique or characteristics / traits that influence behaviour or characteristics that produce consistent patterns of behaviour		
		(ii)	Two marks from: Stable		2 (AO1)	Submax one for stable Submax one for extrovert
			1. Predictab	le / calm / even tempered / controlled / constant xperience high stress / recovers from stressful situations easily		Accept: any linked behaviour
				outgoing / seeks excitement / may lack concentration more slowly than introverts		
		(iii)	Two marks from:		2 (AO3)	Mark 1st two only
			trigger inf or	listic than trait theory as) it explains how the environment can erited traits account the effect of both traits and the environment	(133)	
			or explains v	why our behaviour is often unpredictable why an individual might act differently in different situations (e.g. trol on football pitch but quiet in English lessons)		
			3. Explains	why people in the same environment behave differently		

(b) (i	Two marks from:		2	Mark 1 st one only
			(1 x AO1	
			1 x AO2)	Submax one for technique
	Technique	Example		Submax one for example o
	1. Positive thinking /	8. A rugby player is kicking for a conversion and tells		use
	self-talk	herself she can do it		
	2. Negative thought	9. A javelin thrower is getting ready to throw but starts		
	stopping	worrying they will cross the line after they have thrown.		
		As soon as he starts to think this he stops this thought		
	3. Rational thinking	10. If an Olympic hurdler starts to worry about their		
		upcoming race they will start to think about all the times		
		they have won and how well they did in qualifying		
	4. Mental rehearsal	11. A golfer closes their eyes and pictures themselves		
		making the putt and the ball going in the hole		
	5. Imagery	12. When a boxer is getting too nervous before a fight		
		he might imagine he is on a beach		
	6. Goal setting	13. A hockey player may set a goal to making 3		
		interceptions and 2 block tackles		
	7. Mindfulness	14. A gymnast might be worrying about the next routine		
		but decided to meditate / use mindfulness to find a		
		calm space in her head.		

	(ii)	Two mark	s from:		2 (1 x AO1,	Mark 1st one only
		Tec	chnique	Example	1 x AO2)	Submax one for technique
		1. Progre	essive	5. A netball player tenses and relaxes her muscles		Submax one for example of
			r relaxation	working from her feet to her head		use
		Biofeedback 6. A swimmer might use heart rate monitor in her process race preparation to help her recognise when she is becoming too anxious in order to control her anxiet levels before the race starts.				
		3. Centri	ng technique	7. A footballer goes to a quiet room to focus his concentration on the centre of his body enabling him to focus his mind.		
		4. Breath	ning control	8. A volleyball player takes deep slow breaths before taking the serving position.		
(c)	(i)	Three mai	rks from:		3 (AO1)	Mark 1st three only
		1.	Focus atten	tion] ` ′	Do not accept
		2.	Increase mo	otivation		Measures progress (RQ)
		3.	Build confid	ence / self efficacy		
		4.	Increase pe	rsistence		
		5.	Reduce / co	ontrol anxiety / stress		
		6.	Control arou			
		7.	Improves pe	erformance / technique / fitness / tactics		
		8.	Helps perfo	rmers to develop strategies		
		9.	Helps trainii	ng to be more specific		
		l —				

(ii)	Three marks from	n:	(AO3)	
	Effective becau	se		Answers need to show whether / how the goal is effective or ineffective.
	1. Specific	It's specific as it is focused on flexibility and the test is specific for lower back and hip flexibility / which is what the gymnast needs to improve on / specific to her sport Or It's specific as it clearly states the intended outcome which is to improve to 30cm		
	2. Measurable	it's measurable / uses scores as a measure	-	
	3. Recorded	the coach gave a log book to record / monitor the results	1	
	4. Time phased	it's time phased / there is a timescale of 1 month		
	Ineffective beca	nuse		
	5. (Not) specific	Doesn't focus on developing the full range of hip / lower back flexibility which a gymnast will need		
	6. (Not) achievable	it's not very achievable / realistic to go from 8cm to 30cm in one goal / should be broken down into short term goals		
	11	it's too short a timescale		
	7. Too short time scale	no too onore a timosocio		

)	Five marks from: 1. Performance	Previous failure / poor past experience	5 (AO3)
	accomplishments –	or not had previous success	` ′
	failure	or not nad provided dedecas	
	2. Performance	If the reason for previous failure was attributed to	
	accomplishments –	uncontrollable / stable reasons / learned helplessness	
	attribution	(which links with low S.E.)	
	3. Vicarious experience – someone fail	Seeing someone (in their class / peer group) fail	
	4. Vicarious experience	Seeing others succeeding that are older / more advanced	
	someone different succeed	could make them believe they won't be very good	
	5. Verbal persuasion -	Not received any encouragement / positive feedback when	
	message	they have tried	
		or overuse of negative feedback	
	6. Verbal persuasion –	Parents / coach / significant other don't encourage / tell	
	significant other	them they are no good	
	7. Verbal persuasion –	If friends tease them for wanting to try an activity / peer	
	friends tease them	pressure	
	8. Emotional arousal	Doesn't have effective strategies to control arousal or over arousal / under arousal	
	9. Emotional arousal	Perceives physiological changes as worrying rather than preparation for action	
	10. Behaviour/	This low self efficacy might mean that they don't try the	
	performance	activity because they think they won't be very good at it which then further reinforces the low self efficacy	
	11. More components	The more components that are negative the greater the chance of developing low self efficacy	

Levels of response MS for H555/02

Section C				
Question	Answer	Guidance		
8*	detailed knowledge and excellent understanding (AO1) well-argued, independent opinion and judgements which are well supported by relevant practical examples (AO2) detailed analysis and critical evaluation (AO3) very accurate use of technical and specialist vocabulary there is a well-developed line of reasoning which is clear and logically structured. The information presented is relevant and substantiated.	 At Level 3 responses are likely to include: Detailed discussion of all three theories, covering the extent to which the theories support the statement. Thorough understanding of all four types of guidance Successful application to sporting context of all guidance types. At the top of this level learners may have drawn conclusions regarding the extent to which theories support the statement/ may have concluded that guidance types may be used in combination. Some explanation of guidance might also be present AO1, AO2 and AO3 all covered well in this level. 		
	 Level 2 (5–7 marks) good knowledge and clear understanding (AO1) independent opinions and judgements will be present but may not always be supported by relevant practical examples (AO2) good analysis and critical evaluation (AO3) generally accurate use of technical and specialist vocabulary there is a line of reasoning presented with some structure. The information presented is in the most-part relevant and supported by some evidence. 	 At Level 2 responses are likely to include: Good knowledge of all three theories of leadership. Some discussion as to the extent of which the theories support the statement. Good knowledge of guidance methods Successful application to sporting context of some guidance types. maximum of 3 marks to be awarded for AO1 and 3 marks for AO2; some AO3 required for top of this level. 		
	Evel 1 (1–4 marks) satisfactory knowledge and understanding (AO1) occasional opinion and judgement but often unsupported by relevant practical examples (AO2) limited evidence of analysis and critical evaluation (AO3) technical and specialist vocabulary used with limited success the information is basic and communicated in an unstructured way. The information is supported by limited evidence and the relationship to the evidence may not be clear.	At Level 1 responses are likely to include: Satisfactory knowledge of some theories of leadership Little, if any, success at discussing the extent to which the theories support the statement There may be more focus on describing / explaining the theories. Some satisfactory understanding of guidance types and there could be some supported Egs present maximum of 3 marks to be awarded for AO1 with no application.		
	(0 marks) No response or no response worthy of credit.	Guidance: Maximum of 2 marks to be awarded for AO1		

Marks: 10 (AO1 x3, AO2 x3, AO3 x4)

Guidance: Maximum of 3 marks to be awarded for AO1.

Maximum of 3 marks to be awarded for AO2

Maximum of 4 marks to be awarded for AO3

Indicative Content

AO1 - KU	AO2 – E.G.	AO3 - DEV				
'Leaders are born, not made.' Discuss this statement with reference to the three theories of leadership.						
Trait theory						
1. Trait theory		This theory fully supports the statement.				
Trait theory states that people are born with	e.g. charisma, confident	Trait theory agrees with this statement				
characteristics that make them good leaders.		Born with the predisposition to lead				
(innate / inherited / genetic)		 Innate characteristics to lead 				
 Leadership traits are stable / enduring / predetermined 						
3. Trait theory does not take into account the		The statement disregards any situational				
environment or other people at all.		influences				
4. Great man theory	e.g. if you are a leader you can lead any	Suggests that only sons inherit the necessary				
	size team, for any sport, at any level	qualities of leadership				
	because they are simply born a leader.	or only men are born leaders				
	Social Learning Theory					
5. Social learning theory		This theory fully disagrees with the statement /				
		does not support the statement that leaders are				
	Plate Grand de La Lacilla	born not made				
6. Social learning theory states that leadership characteristics are learned from others.	e.g. you are likely to copy the leadership	This theory would suggest the opposite of what				
	behaviours of the school netball captain.	the statement says, i.e. that leaders are made / learn to be leaders (not born)				
 You are more likely to copy the behaviour if the person is of a higher status / role 	e.g. watching someone lead the football	leant to be leaders (not boin)				
models	team badly would enable you to not make					
This learning is by watching other leaders	the same mistake when you were leading.					
be both successful and unsuccessful.	the same mistake when you were reading.					
7. Leadership behaviour considers the social		This theory states it's not the traits that you have				
environment you've been exposed to		been born with that determine if you're a good				
		leader but the social environment you've been				
		exposed to so disagrees with statement				
8. Leadership behaviour is learned if it is	e.g. If a hockey team praise their coach, it					
reinforced / vicarious reinforcement	is more likely that the coach's behaviour will be copied.					
9 SLT does not consider the effects of traits /		Ignores traits so fully disagrees with the				
inborn characteristics on leadership at all		statement				

Interactionist approach				
10. Interactionist approach		This theory partially supports / partially disagrees with the statement		
11. Traits and the environment interact to influence leadership		This theory supports that inborn traits can influence leadership • And it disagrees because it says the environment influences (interacts with traits) to influence leadership		
12. Interactionist approach states that an individual is born with certain characteristics to make them effective leaders but it depends on / comes apparent in certain situations.	e.g. an individual may be quite laid back on a daily basis but when playing for a netball team, the coach is ill and the need for someone to take the lead and organise the session is present so this individual steps up and organises the netball practice.	The interactionist approach agrees with the statement to a certain degree (but not fully). • You need to have been born with the necessary leadership characteristics but they only become evident in certain situations. • It is not born or learned but the interaction between both.		
 13. You show (inborn) leadership traits /skills when the situation demands it You might not be a leader in everyday life but show leadership qualities in sport 		This would suggest that inborn traits do have an influence in certain situations so does not fully support the statement / partially supports the statement		
		In conclusion, trait theory fully agrees with the statement, social learning theory fully opposes the statement and the interactionist approach partly agrees with the statement.		

AO1 - KU	AO2 – E.G.	AO3 - DEV				
Using sporting examples, outline the types of guidance a leader could use to help improve performance						
 14 Verbal guidance Talking to performers Explaining / describing the coaching points of a skill Talking through a set play or tactic 15 Visual guidance Showing how to do a skill / new tactic Demonstration Video Drawing / diagram 	e.g. a badminton coach telling the player where to place their feet when performing a flick serve. e.g. explaining positions on a netball court when doing zonal defending e.g. the leader showing the rock climber a way of getting over the overhang e.g. the leader using a board with magnets on to show the American football team a new set play	Gives an understanding of how to perform				
16 Manual guidance	e.g. the leader could physically place the volleyball player into the correct position from which to perform a dig e.g. the leader could physically support the gymnast to help them perform a backwards walkover	This could be to ensure the performers safety To build confidence To enable them to complete a movement they might not be able to otherwise To gain the kinaesthetic feel of the movement				
A mechanical device / piece of equipment used to help the performer	e.g. using a harness to complete a tumble in gymnastics e.g. using a pull buoy during training	This could be to ensure the performers safety To build confidence To enable them to complete a movement they might not be able to otherwise To gain the kinaesthetic feel of the movement				
18. Can use combination of guidance types / often visual and verbal go together	e.g. a cricket coach showing how to perform a forward defensive shot whilst saying the coaching points	Using a combination can make learning faster / more effective / aids understanding				

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