



Answers

For AS and A Level AQA Year 1 PE

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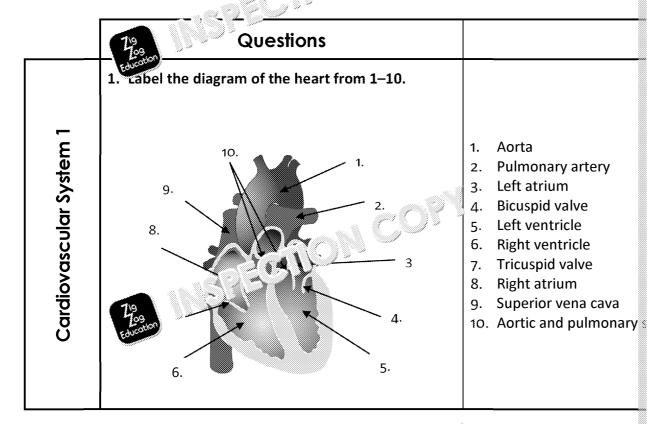
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3.1.1 - Applied Anatomy and Physiology

Cardiovascular system 1: Impact of Charles Activity on Health and Fitness and Regi







Questions Coronary heart disease: a in the arteries. This stops High blood pressure: a blo the heart High cholesterol: an exces 2. Define the terms 'coronary heart disease', 'high coronary heart disease wh blood pressure', 'high cholesterol', 'stroke', **Stroke:** the restricted or cu 'atherosclerosis' and 'angina'. Cardiovascular System 1 because of oxygen starvati Atherosclerosis: a build-up of blood through the coror Angina: the pain felt in the due to blockages and narro Exercis **Coronary heart** there is disease: heart a vessel High blood Exercis 3. For each of the four health issues, describe how pressure: blood exercise can reduce the risk of the health Cholesterol Exercis concern occurring. build-up: loweri≋ Exercis which Stroke: vessel blocka

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Questions the nu Heart rate: minut in 😘 😅 ms 'heart rate', 'stroke volume' the an Stroke volume: 'cardiac output'. beat/c **Cardiac output:** the an 5. How is maximal heart rate of an individual Maximal heart rate (HR_{max}) estimated? Cardiovascular System 1 Cardiac output (ml/min) = 6. Write an equation to calculate cardiac output. Variable 7. Fill in the grid on the right, ide with the Heart rate correct average resting the for an average untrained in the large art rate, stroke volume Cardiac output d () ' () [put]. Would the values increase ec Lase in a trained individual? Stroke volume At Rest Values **Heart rate** 70 8. Fill in the table, identifying the correct average (bpm) values for an average individual (heart rai Stroke stroke volume and cardiac output) (iring 70 volume (ml) submaximal exercise. Cardiac output 4900 (ml/min)



Cardiovascular System 1

Questions

values for an average individual (heart rate, stroke volume and cardiac output) during maximal exercise.

Values	At Rest
Heart rate (bpm)	70
Stroke volume (ml)	70
Cardiac output (ml/min)	4900

10. What is meant by the tor a patory rise??

The increase in heart rate anticipation of exercise. It



11. Explain how the vascular shunt mechanism regulates blood flow depending on exercise intensity

When exercising, more blorecognises that delivering than delivering blood to on the that blood is not needed, avasodilation – widening of







	Questions CO - 3	
	79.9 2. Explain the process of diastole.	Diastole is the heart relaxior the lungs (oxygenated) aided by the atrioventricul travelling out of the atria. is higher than that in the vinto the ventricles.
stem 1	13. During systole, blood is ejected from the ventricles through which arteries? State each artery takes the blood.	The aorta takes blood from The pulmonary artery take
Cardiovascular System 1	14. The heart is able to the an electrical impulse still the period of the muscle cells?	Sinoatrial node
iovas	at does the impulse cause to happen in the arria?	The impulse causes the at
Caro	16. Which heart feature does the impulse travel to next? What is its function?	The AV node. The AV node with blood before the imp
	17. Fill in the missing words.	Once the ventricles have which separates into left
	te se effect the Purkinje fibres have on the education tricles.	The Purkinje fibres cause t the electrical impulse.



	Questions	
	19. Explain what hare and its circuit after the	The heart relaxes, filling wind process of a heartbeat.
system 1	20. Describe and explain how the heart rate of a long-distance runner is regulated by neural factors during competition.	Neural factors regulate blo blood pressure and change system; they are reported proprioceptors respective impulses to either increase parasympathetic (decrease
Cardiovascular System 1	21. How does the body a carriate when increased an a carriagon dioxide are blood during exercise?	During exercise, there are The increased concentration Chemoreceptors stimulate increase, helping to remov
O	22. What is the role of baroreceptors, and how do they regulate blood flow during exercise?	Baroreceptors detect chan changes. The barorecepto heart rate to deliver more
	23. Describe the role of proprioceptors and plain how they change heart to a constant a exercise.	Proprioceptors detect move medulla oblongata to stime



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Cardiovascular System 2: Oxygen Transport, Yar por Resurn and Arteriovenous Oxygen Difference

	Questions	
	hat is the name of the protein in red blood cells charter that can transport oxygen to the working muscles?	Haemoglobin
m 2	2. What is the name of the protein that transports oxygen within muscle cells?	Myoglobin
Cardiovascular System 2	3. Explain the process of Cx go: sociation from haemoglobin	In areas where the partial haemoglobin has a great absorb more oxygen from the partial pressure haemoglobin releases or
	4. A graph of oxygen saturation of the haemoglobin at rest and during recovery would show a shift of direction of the graph curve. In which direction does the shift occur and what is this called?	Shift to the right = Boh





		
	Questica	
System 2	5. Draw an approximate graph to show this shift. Remember to label your axes correctly.	% saturation of haemoglobin 40 09 00 00 00 00 00 00 00 00 00 00 00 00
Cardiovascular System 2	es three factors that are responsible for le increase in the dissociation of oxygen from haemoglobin.	 Acidity (pH) of bloc pH of the blood. A oxygen from the hat Partial pressure of higher rate when the
		3. Blood temperature exercise, oxygen m
	To Market Market Co.	•

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Question 1. Pocket valves: one prevent blood flow 2. Skeletal muscle pu contraction, causin 3. Respiratory pump 7. Describe the five mechanisms of venous return. this pressure gradi cavities apply press Cardiovascular System 2 back to the heart. 4. Smooth muscle: m the heart. 5. Gravity: aids blood As systolic blood press sci Le the relationship between venous return blood pressure. As systolic pressure de Exercise (Starling's lav There is an increas blood filling the h€ 9. Explain how venous return differs carrie carries Before contracting (Starling's law). more blood to ent An increase in the venous return.



Question pl. pelow, describe cardiovascular Cardiovascular drif sustained steady-s continued dec Heart rate small increase Cardiovascular System 2 progressive inc This process occurs Arbitrary units Stroke fluid loss results in volume and, therefore, ver For cardiac output heart rate needs to stroke volume × he Cardiac The body attempts output temperature. 40 60 Time (Secs) Gas exchange at the m 11. Describe arteriovenous oxygen difference (A-VO₂ The arteriovenous diff difference) oxygen between the an muscles.





Question At rest, there is a s amount of oxygen As the muscles und oxygen, meaning t 12. Describe how arteriovenous oxygen difference capillaries surround changes in response to exercise. The reduced amount Cardiovascular System 2 oxygen in the arter the levels of oxygen difference). 13. How does the A-VO₂ difference of chained A trained individual is individual differ fr ເຄັນ ເປັນ ກັບການກາrained untrained individual. individua13 As a result of cardi (increased number 14. What adaptations occur due to cardiovascular Capilliarisation allo training, which influence A-VO₂ difference? improved rate of g A trained individua blood supply.





Respiratory System

Respiratory System			
	೧೯೦೯		
	79 Forces of the terms 'breathing	Breathing frequency:	the i
	frequency' and 'tidal volume'.	Tidal volume:	the
	2. Write an equation to calculate minute ventilation.	Minute ventilation (I/min) = brea	thing
 E		Variable	
Respiratory System	3. Fill in the grid on the right, identifying the correct lens resting values and partial length and minute ventilation) [19] The sand minute ventilation an untrained athlete.	Breathing frequency	
atory		Tidal volume	
espira		Minute ventilation	
~	4. Fill in the grid on the right, identifying the correct average values for each variable (breathing frequency, tidal volume and minute values in aximal	Variable	
		Breating frequency (per minute)	
		Tidal volume (ml/min)	
	exercis . 713	Minute ventilation (I/min)	

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Questions Residual volume: The 🛭 offine the following terms: The **Expiratory reserve volume:** esidual volume, expiratory follo reserve volume and inspiratory reserve volume. The Inspiratory reserve volume: follo Respiratory System יט יט rugm: cont cont **External intercostal muscles:** 6. Describe that appens to the the r ar انهاد المالة الم ercostal muscles during inspiration and expiration at rest. Diaphragm: relax relax. External intercostal muscles: inwa 7. Name three muscles that covert inspiration during Action Sternocleidomastoid, Pectoralis minor, increase +h a acity. an 🗉 😘 muscles that support Internal intercostals, Rectus abdominus piration during exercise, reducing thoracic capacity.



	Questions	
	9. Give a ຳ ຳ ຳ ແລະ ວາ diffusion'.	Diffusion is the movement of gas from concentration.
	Define 'partial pressure'.	Partial pressure is the pressure that a ga
Respiratory System	11. How does gaseous exchange take place in the alveoli?	Alveoli of the lungs have a high volume alveoli's surrounding capillary network concentration of carbon dioxide which, pressure certain gases controls the diagram of oxygen will diffuse or
ž	Vh : , ; iological factors aid sectors exchange between the alveoli and capillaries?	 Large numbers of alveoli provide a Large capillary network increases so slowing the movement of red blood Thin membrane between alveoli and





Questions Diffusion of oxygen takes place f concentration of oxygen. Carbo capillary network. Gaseous exch of diffusion, and a large capillary 13. Explain how gaseous exchange takes diffusion. place at the muscles, and what factors Gases are diffused between the aid the exchange. move from high partial pressure Respiratory System muscles carry a lot of carbon dic carl on dioxide in the muscles is ೂಂ. 1, which has a lower partial 14. Found in the med is 5 . raca, what is the name 3 . . . "e area of the brain Respiratory Control Centre (RCC) respiration? hat are the names of the two Inspiratory Control Centre (ICC) subsections of this area (identified in Expiratory Control Centre (ECC) Q13)? Outline their roles. 16. What are the effects of the sympathetic The sympathetic nervous system nervous system and the pro aring the body for exercise parasympathetic nervous system on he parasympathetic nervous sys respiration?





Questions Changes in blood acidity due to muscles) are identified by the ch plain how chemical control regulates responds by increasing breathin breathing as we begin to exercise. is done by sending information t to contract. Breathing rate is in ?roprioceptors detect move Respiratory System stimulate the RCC. As the lungs inflate – or 'str and stimulate expiration. Baroreceptors located in the Cural control help to pressure, stimulating the EC gulate breathing rate during exercise? 4. Chemoreceptors detect cha length, more carbon dioxide Receptors send information down the intercostal nerves contraction. Prior to exercise, adrenaline is re 19. Explair 1 4 1 5 adrenaline in the Chemoreceptors detect the adre v. s. or respiration. centre. In turn, the respiratory telling it to increase breathing ra



Questions

Respiratory System

escribe the reasons smoking can negatively affect the respiratory system and transport of oxygen.

- Carbon monoxide (found in a to the haemoglobin. This red working muscles.
- Tar from cigarettes destroys
 Therefore, no harmful substant
- Smoking causes reduced elastoric bronchioles or restrict the effective and the second s





The Neuromuscular System

		0: (6) 5	
	1	Toget i motor unit?	A motor unit is the combination
			Fibre Type
	2.	Name the three types of muscle fibres and comment on the size of each fibre's motor	Slow oxidative / type I
_		neurons.	Fast oxidative glycolytic (type IIa
ten			Fast glycolytic (type IIb)
Jar Sys	3.	How is the motor neuron connected ' - 1 = muscle fibre?	Via the neuromuscular junction
The Neuromuscular System	4	79 Jail s meant by 'action potential'.	Action potential is an electrical transported by the motor neuro
The Ne	5.	What happens when an action potential reaches the neuromuscular junction?	Neurotransmitters (made of ace
	6.	What happens to the muscle cells when depolarisation occurs at the motor end plate?	contract.
	7.	What does the law state?	A muscle fibre is either under fu at all.
	-(409 - 30 - 30 - 30 - 30 - 30 - 30 - 30 -	



Questions

Education	Slow oxidat (type
8. State the three types of muscle fibre and give five characteristics for each fibre type.	Fast \ at lycol (type
	Fast

Fibre Type	
Slow oxidative (type I)	 Slow contract High oxidativ High resistant Low force profile Low glycolytics
Fast ative lycolytic (type IIa)	 Fast contract High oxidativ Medium resi High force pr High glycolyt
Fast glycolytic (type IIb)	 Fastest contr Low oxidative Low resistant Highest force High glycolyt



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The Neuromuscular System

	Questions) »	
٤	793 NSP	Slow oxidative (type I):	e.g. marathon, le events)
The Neuromuscular System	9. Give an example of a sport that requires the athlete to use each muscle fibre type.	Fast oxidative glycolytic (type IIa):	e.g. 400 m sprin
Jromusc		Fast glycolytic V _F (IIb):	e.g. weightlifting
le Nei	10. What is proprioceptive neuron facilitation (PNF)?	PNF is a stretcl	hing process that
<u>F</u>	11. Scrii olgi tendon organs are and	Golgi tendon o tendons join.	organs are proprio



Z



Questions Golgi tendon organ – when tendon organ is activated The Golgi tendon organ enc 12. Describe the process of PNF. The relaxation of muscles m overstretching – are inhibite The inhibition of the muscle The Neuromuscular System Spatial summation – to com if the muscles cannot contract 13. Using a sporting example, e recruited. summation. e.g. performing a serve in tab Therefore, fewer motor units throw the discus. Wave summation is a method of contraction by increasing the free 14. Describe wave summation. This inhibits the muscle cells' at contraction. Tetanic contraction is linked to 15. Describe tetanic contraction of muscle cells occurs too freque





Questions The Neuromuscular System 16. Draw a graph to show the effect of wave summation on the total force produced by muscles. Slow oxidative (type I) े ३- ore types in order of Fast oxidative glycolytic (ty iitaent during exercise. Fast glycolytic (type IIb)





Musculoskeletal System and Analysis of A o ment

	C + tió		
+	7,0		Joint Type
mer	ne two types of joint found in the body and give two examples of where	1. Ball-and-socket	
Move	each can be found.	2. Hinge	
llysis of	2. Define what is meant by agonistic and	Agonistic muscle	An agonistic mus movement. The limb to move.
Musculoskeletal System and Analysis of Movement	antagonistic muscles.	Antagonist muscle	An antagonistic muscle. It acts a and provides res
	3. Sing a sporting example, explain how agonistic and antagonistic muscles work together in a pair.	For example, of instigated by to time, the antagonistic mannagement of the shot (external external ext	levant example) luring a basketball he agonist muscle gonistic muscle, the nsion of elbow), the uscle. The triceps m to its original po
	4. Define the term 'isotonic more contraction'.	isotonic muscle contraction is a contraction. Isotonic muscle co contractions.	





	Questions	
alysis of	5. Describe: 1 10 an example of an 10 to 1 concentric muscle contraction.	A concentric contraction is the swhen lifting a weight in a bicep place. (or other suitable examples
Musculoskeletal System and Analysis of Movement	6. Describe and give an example of an isotonic eccentric muscle contraction.	An eccentric contraction is the lead when lowering a weight in a bice takes place. (or other suitable expenses the suitable expenses
	7. What is meant by the term 'isometric contraction'?	Isometric contraction is a muscle cle. It is, therefore, the opposite contraction is a muscle contraction in the muscle contraction in the muscle contraction is a muscle contraction in the muscle contra
Keletc		Biceps when lowering a weight bicep curl:
culos	8. Identify the American occurring the given ments.	Deltoids when holding a hands gymnastics:
Wus	Education	Biceps femoris during upwards a squat:



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Questions Musculoskeletal System and Analysis of cruse the planes of ve ⊇nt below. Divides the bo A: Sagittal plane motion occurs В Movement **B: Frontal** Divides the bo frontal plane. Divides the bo C: Transverse occurs in the tra plane





Questions crive the axes of rotation Musculoskeletal System and Analysis of Movement Travels throug A: Sagittal through to the axis this axis (e.g. a B: Runs from the Longitudinal the floor. Rota C: Transverse Runs from one axis gravity. Extens Plane: Sagittal plane 11. In which plane and axis does plantar flexion and dorsiflexion of the ankle occur? Transverse axis 12. Give a sporting example of fle in and Any suitable example: preparation extension of the kness & rriginithe kicking a football / downwards sagittal planc 🛫 😘 🕹 erse axis.



	Questions		
<u></u> _	13. During a variation of stoallers may	Plane:	Frontal
	yement and axis of rotation that the	Axis:	Sagittal
Anal	types of movement that occur at the hip.	Movements:	Abduction and a
and +	14. When entering the water, a diver will lift their arms above their head. Name the	Plane:	Sagittal
tem men	plane of movement and axis of rotation that the movement occurs in and identify	Axis:	Transverse
Musculoskeletal System and Analysis Movement	the type of movement that is occurring the shoulder.	Movement:	Flexion
eletc	15. In which plar ar's would horizontal	Plane:	Transverse plane
ulosk	abdus acauction of the hip occur?	Axis:	Longitudinal axis
N USC!	1 ve a sporting example of flexion and extension of the elbow occurring in the	Flexion:	Any suitable exa
2	sagittal plane and transverse axis.	Extension:	Any suitable exa

S



Musculoskeletal System and Analysis of Movement

Plane: Plane: Axis: Sagittal axis



running.

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transverse axis. Name the types of

19. Give a sporting example of horizontal

plane and longitudinal arri

movement that occur at the hip during

abduction and horizontal adduction at the shoulder, occurring in the transvers

Any suitable example

Any suitable exa

Flexion, extension (and hyperex

Horizontal

پ پر uction:

Horizontal

adduction:

Questions



Musculoskeletal System and Analysis of Movement

A football player is kicking a ball.

20. Analyse the left ankle, knee and hip joint of the footballer during the preparation phase



Joint type:	b
Articulating bones:	р
Movement:	h
Agonistic muscle(s):	g
Antagonistic muscle(s):	il
Muscular contraction	i
type of the agonist:	'
-	
. int type:	r
Autioniation become	ے ا

int type:	h
Articulating bones:	fe
Movement:	fl
Agonistic muscle(s):	h
Antagonistic muscle(s):	q
Muscular contraction type of the agonist:	is
'sint type:	h

ì	int type:	h
	Articulating bones:	ta
	Movement:	р
	Agonistic muscle(s):	ga
	Antagonistic muscle(s):	ti
	Muscular contraction	is



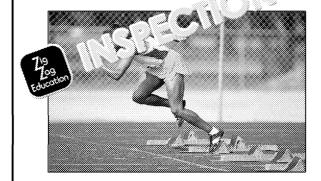
Questions



Musculoskeletal System and Analysis of Movement

21. Perform a performance analysis for the lower body of a 100m sprinter as they drive off the starting blocks. Focus on the trailing leg, used to push-off from the blocks.

Articulating



Joint type:	
Articulating bones:	
Movement:	
Agonistic muscle(s):	
Antagonistic muscle(s):	
Muscular contraction ty	pe:

t it type.
Articulating bones:
Agonistic muscle(s):
Antagonistic muscle(s):
Muscular contraction type:

Joint type:	
Ar culating bones:	
Movement:	
Agonistic muscle(s):	
Antagonistic muscle(s):	

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79 7209 Education

3.1.2 – Skill Acquisition Skills, Skill Continua and Transfic Skills

	2 Juestions		
Skills, Skill Continua and Transfer of Skills	1. Name nine characteristics of a skill.	 Efficient Fluent Consistent Effective Well-timed Accurate orrect tech Controlled Aesthetic 	nnique
l pu	79 11375	Classification:	Difficulty contin
inua a	which classification/continuum do simple and complex belong to? Define	Simple:	Transferable skillow in cognitive
kill Con	the two ends of the continuum.	Complex:	Skills that require composed of nu coordination.
Skills, S		Crassification:	Muscular involv
	3. Which classification you am do gross and fine to a gross define the two ends	Gross:	Skills that utilise emphasis on po
	713 th Cardian.	Fine:	Skills that utilise on accuracy and



Questions Classification: Continuity ic. classification/continuum do Skills that have Discrete: Screte, serial and continuous belong to? Define the categories of the Serial: Skills that follow Skills, Skill Continua and Transfer of Skills continuum. Skills that have **Continuous:** produce contin Below, two ends of a continuum are described. Identify the two ends being described and state which continue a they belong to. (i) Skill takes place in the dictable Continuum: Environmental surrous a skill must be (i) Open in the control of the (ii) Closed Skill takes place in predictable surroundings. There is no need to adapt technique to respond to a stimuli. Simple skills that e.g. long jump 6. Define 'low' and 'high' organisation skills and provide a sporting enamp of a Complicated sk both. flow into one an High: e.g. hurdles



	Questions		
	79 /e 1 5. Jing examples of how different	Self-paced:	Dart throw, jav performer). (accept suitable
S	is can be categorised by pace.	Externally paced:	Tennis return, f performer is in (accept suitable
of Ski		Difficulty:	Simple – limite
Skills, Skill Continua and Transfer of Skills		vii nmental:	Closed – takes per change to suit estimuli such as
a an	8. Sporting mover as consolidassified against and a scontinua at one time.	Pacing:	External – swin
Continue	To just the freestyle sprint against each of the continual and justify your answer for each.	Muscular involvement:	Gross – the spr instead of accu
dils, Skill		Continuity:	Continuous – d stroke.
S		Organisation:	Low – the strok
	9. What is the positive transfer of	A positive transforto the high degree adjustments to t	ee of similarity be



Questions (Accept any appropriate example) A fly half in rugby can kick a rugb Lang example of positive player was asked to perform a fo as they would only need to make ball) to their previous skill set to Skills, Skill Continua and Transfer of Skills Negative transfer is the negative 11. Define 'negative transfer'. performing a new skill. It may oc skill, then struggles to break this (Accept any appropriate example) Negative transfer of a skill could 12. Give a sporting of megative squash forehand, the tennis playe transf attempt to apply topspin to their squash will not react the same wa 13. Why would a footballer need to use Bilateral transfer is the transfer of bilateral transfer to become an elite athlete? Give an example of a football elite level, a footballer would nee skill that would require them to use of skills on both sides of their bod bilateral transfer. Zero transfer means that a previous newly earnt skill, due to both skil ニュア よ.e, explain what 14. Using a spor > > \ ero transfer of learning'. For example, performing a somer push pass in hockey.

Questions

Skills, Skill Continua and Transfer of Skills

positive transfer and limit a negative transfer of a skill.

Any two of the following:

- The two skills (original and ne
- Subroutines of skills must be
- Ensure the player is aware of
- Start new skill by learning the
- Ensuring one skill is well lear
- Using positive feedback and 🏻







Practice for Learning

	Prisology 3	
9 2	a sporting example of when whole practice should be used.	Whole practice should be used for doesn't benefit the athlete to breshot in tennis.
oes of Practi	2. What benefit does whole practice have over part practice?	Whole practice enables the athlete athlete to develop a kinaesthetic until the elps them in the future as the
Methods and Types of Practice	tice would be used. Give a sporting example of a skill that may use this practice method.	Whole—part—whole practice is use subroutines. The athlete perform components, practises these complete whole skill again. For example a whole routine. Then the kick calculus, placement of feet, striking been practised, the skills are brought
	7709 Marian	





Questions Whereas whole-part-whole pra completely separately to each ot progressive-part practice breaks 4. Explain the difference between bringing the subroutines togethe 'whole-part-whole' practice and being kicked from the tee. The p 'progressive-part' practice. they would practise the run-up a Methods and Types of Practice movement. Practice would then striking of the ball. Finally, the la ົ/ແກplete the whole skill of kic 5. Define 'n . Structice' and state which Massed practice is the continuou kins would be completed using suits simple skills that can easily la sed practice. swimming. 6. Define 'distributed practice'. Distributed practice is similar to Distributed practice is beneficial 7. What advantages does 'distributed ್ರೀ o perform continuous prac practice' have? દ્વતોd feedback to be given to the a more complex skills can be perfo Variable practice is the practising ے 'variable practice'. and changed by a coach.



Questions Advantages: • This helps to improve the perf they learn the optimal respon • It is more realistic for a compe Helps to break the monotony 9. Evaluate the advantages and disadvantages of 'variable practice'. Disadvantages: **Methods and Types of Practice** Cannot be used effectively for n overwhelm beginners who carect stimulus. Mental practice is when an athle 10. Using 2 s to g ample, describe without actioning it physically. F no sucice'. place a penalty kick prior to taking **Advantages:** Can improve confidence as it successfully react to more dif an be used as a stress man seful for beginners to creat 11. Evaluate the advantages and disadvantages of 'mental roa Disadvantages: Not as effective as physical p Not as effective for simple sl



Questions Progressive each subrou Low organisational Distributed skills: sessions (w allows subro Methods and Types of Practice Massed pra point and a 12. Provide the best type of practice or athletes to practice methods for each of the Continuous skills: different skill classific () + a could be Distributed used to optimal of mance. Provide sessions (w ef 😘 🔌 🖟 🕽 on for your choice. allows subr Whole prac breaking skill Closed and self-Massed pra ્રદેર ત્રે skills: unchanging be complete technique r



Questions Whole-part break down whole again... Methods and Types of Practice Variable pra **Complex skills:** different en scenarios. Distributed sessions (wl allows subre 12. (continued) Mental prac athlete's mi rugby conv€ Serial skills: Distributed ... sessions (wl allows subre

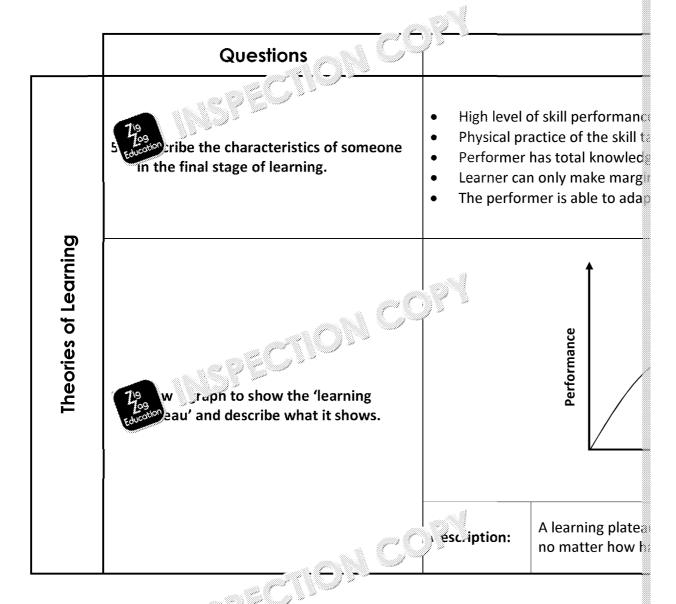
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Theories of Learning

Theories	Theories of Learning		
	Programme State of the State of		
	19 ne e chree stages of learning.	Cognitive, associative, autonomo	
	2. Togentify which stage of learning a child who is learning how to rugby tackle for the first time would be in?	The child would be in the cognitive	
Theories of Learning	3. Describe the stage of learing? Shild is in (identified in Section 2.).	 The earliest stage of learning without cognitively processing. The tackles would also be incommodated time, as the child cannot ada. The child would rely heavily (external, positive and terminal). The child would make errors trial and error until the skill in the s	
	4. Describe the characteristics of a lear in the second stage of learning	 Shift towards physical (as op he performance of a skill with A learner will make fewer erromplex situations or adaptions or adaptions or adaptions or adaptions or adaptions or adaptions or adaptions. Performer uses more intrinsical descriptions. 	
	Education		









Questions The performer is not skilled The coaching is not at a high easons why an athlete's learning The performer is not motiva may plateau. The performer is too tired to The performer finds the pract Theories of Learning eparate and concentrate or Develop and use intrinsic rev 8. Suggest how a performer () ercome Ask for extrinsic rewards from a learning plate? The landing a new Use a more experienced coa skill. Allow sufficient recovery per Make the practice more enjo Positive reinforcement – if a perf urages the athlete to perfor 9. Describe the three conditioning Negative reinforcement – a nega techniques, within operation of statements of the statement of the stateme correct behaviour. This reinforce that can be used alte Lenaviour. Punishment – punishment is use someone (e.g. a coach). An indiv similarly in the future. This weak



Questions Cognitive theories of learning acl response to a stimulus (such as c individuals are constantly taking behaviour based on their percep that environment. 10. Explain how cognitive theories of learning encourage the learning of new Gestaltists believe that skills are no subroutines to study). It is thou skills. Theories of Learning understanding a skill in its entire ્રાં_દોt theory breaks a skill into 🤃 an individual can often lead to a individual. ne `e lour stages of Bandura's theory Attention, retention, motor repr servational learning. Attention is the observer paying able to split the skill into subrout the kill being performed by som 12. Explain what Bandura meant by attention and retention in observational learning. a stention is the ability of the obs memory for later use. This enab their memories of the skill.



	Questions		
	13. What would a series up in the motor repression to the motor series of Bandura's theory by series at learning?	In this stage, the observer attem (during the attention stage) base	
	14 ame an important consideration when applying the <i>motor reproduction</i> stage of Bandura's theory.	The observer should be of a high performing the skill they witness	
	15. Why is <i>motivation</i> an important consideration in Bandura's theory?	The individual must be motivated they reach a required standard.	
Theories of Learning	16. Observational learning is more lively to take place if there are because in place. Outline the factor that can increase the behaviours	y hree from the following: Reinforcement of behaviours Demonstrations are clear and The demonstrator is consisted The learner can associate with useful?) The demonstrator is of a simulation.	
Thec	17. Briefly outline how Vygotsky suggested social development theory influences cognitive development.	Social development theory hypot are the primary influences in cog imitate individuals who are more	
	18. Describe the process of interpsychological learning	Interpsychological learning is the improve their skills on their own	
	tling the chree stages within the zone consistent oximal development.	 A performer is not able to co A performer needs assistance The performer can complete 	

\overline{Z}



Use of Guidance and Feedback

	Que Jon.		
	709	Type of Feedback	
	Education	Positive	Providing good asp
oack		Negative	Giving an good abo
Feedk		EY* C	Feedback person su
ance and	1. Name and describe the sixt property of the second identify with large of learning the second identity with large of the second identity wit	Intrinsic	Feedback regarding type of ki
Use of Guidance and Feedback	709 Education	Knowledge of results	An extern the outco example, m sprint.
'n		Performance	An extern coach's coach's coach's coach's coach intrinsic so performe



_	Questions	
ack	2. Define 'vc: A di 'nce'.	This is instruction from an external movement. Instructions should be
Use of Guidance and Feedback	3. Define 'visual guidance'.	Visual guidance is any visual cue fro of a skill, for example, demonstrati guidance accurately replicates the
dance	4. Define 'manual guidance'.	The physical moving of a performe karate fighter being moved into a c
of Guic	5. Define 'mechanical guidanc'.	The use of physical aids or equipment to aid cognitive stage learners.
Use	6. 19 a s example of mechanical	Any appropriate example that sup Or for dangerous activities –, e.g. c



Z



	(
	Questions		
_		Advantages	
Use of Guidance and Feedback	7. Give the advantages and disadvantages of verbal and visual guidance.	 Useful to target specific as weakness. Can give additional feeds experienced performers. Helps to motivate the least simple skills. Can be used to show the as a whole, showing the what the skill should look performed correctly. Helps the learner to developmental image of the skill 	
	8. Evaluate the use of mar 1 (u) . e.	Advantages:	



Questions Useful for a beginner because: Increases confidence levels. Can increase the safety in cert ss now mechanical guidance would Provides the learner with a ge aseful for a beginner learning how to swim. Not useful for a beginner because Can lead to over-reliance of the Learner may not get an exact 1 Use of Guidance and Feedback Intrinsic feedba Definition: regarding their 10. Define 'intrinsic feedback' a ... Can improve a p the advantages and ____ \ . * ges of Advantages: adjust their perf this type of face. from an externa If a performer is Disadvantages: should feel, and 11. Define 'extrinsic feedback'. Extrinsic feedback is feedback giver 12. Which stages of learning are most Cog: we and associative stages of suitable to extrinsic feedback? Can be used in ϵ Advantages: motivate a perfo 13. Describe the includes and ැ ි ු f extrinsic feedback. Performer can b Disadvantages: feedback can de



	f
Questions	
. What a ship in ants of positive	Positive feedback is used to complete player to perform the same skill to can strengthen the stimulus—response.
. What are the disadvantages of positive feedback?	A performer may become too deposecome unmotivated when they to become overconfident if too much
. When would negative feedback be used and what benefits can it have to a performer?	ું ુat ુe feedback is used when a motivate a player to perform a skil
. What are * A A A A A A A A A A A A A A A A A A	In the earlier stages of learning, a presented back due to an unsuccessful presented by the stages of learning and the stages of learning are stages of learning and the stages of learning are stages of learning and the stages of learning are stages of learning and the stages of learning are stages of learning as a stage of learning are stages of learning are stages.
Explain how the use of positive and negative feedback should be adapted to someone in the cognitive stage of learning.	In the cognitive stage of learning, protivate them to continue their ende used a lot to maintain motivation much positive feedback as they make the aminimum as it can unmormouting). Where possible, negations teaching (e.g. demonstrations) so communication.
	When would negative feedback be used and what benefits can it have to a performer? What are the disadvantages of positive and negative feedback should be adapted to someone in the cognitive stage of

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Knowledge of performance is an experience of the second se visual feedback (such as video ana ibe 'knowledge of performance' the performer is highly trained in t and 'knowledge of results'. and Feedback Knowledge of results is an external performance; for example, the time Advantages: Can be used to € 20. What are the advantages and disadvantages of knowledge of Too much inform Use of Guidance performance? Disadvantages: the cognitive sta designed for cog Provides a quick provide targets Advantages: completed). 21. What are the advantages and disadvantages of knowledge of results? Does not provid Dies ' antages:

Questions



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unsuccessful. Re

3.1.3 – Sport and Society

Emergence of Globalisation (10) in the Twenty-first Century

Pre-industrial Britain: pro 270

	Questions			
	1. Name and describe six characteric ic of popular recreation in programme for a full control of popu	_	Irregular – the lower classes days off – 'holy days'.	
		1	nple rules – th∈ ten down (or ∈	
-1870			articipation – t	
Pre-industrial Britain: pre-1870		Violent – sport reflected the		
		Wagering – the upper classe placed bets on the outcome		
		Local – limitat meant that sp	cions of transpoort was rural.	
-inc		Upper class:	Real tennis	
Pre	class system. Give an example of sports played by the upper class and lower has	Lower class:	Mob footbal	
	3. Explain how land a sport during pre-industrial	to this. There conditions. A	ons for the low fore, the game s such, the up ected their wea	



Question^c As education and literacy ra Sation and literacy of the lower games and sports had to be es shape sport during pre-industrial therefore, led to further vio regulations for people to fo Pre-industrial Britain: pre-1870 There was a distinct lack Therefore, sport was pla Long working hours also Explain how time affected participation. on days off. sport during pre-industrial ? Short amounts of time of The upper classes had m participate in sport. Transport was limited in people could not travel of advanced transport n 6. Explain how transport affected the legal on 2 participate in sport. sport during pre-industrial point Bad road systems mean Local games led to unwi Upper classes were able time. Therefore, upper-

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Zig
Zag
Education

Pre-industrial Britain: pre-1870

Questions



- 7. Explain why the upper classes played different sports to those played by the lower classes.
- Sports reflected the lifest sports with written, conviolent sports.
- The lower classes did not equipment, whereas the courts, to practise and p
- The upper classes had no classes could only partic



- 8. Describe what athletics looked like during preindustrial Britain.
- Athletics was referred t
- Pedestrianism originates travel the furthest, in the outcome.
- Gentry betted on the o
- Athletics had few writte
- Athletics events were low
- Athletics events were getting the participants (e.g. low)









Questions Industrial and Post-industrial Britain Middle-class people tended to upper class who inherited wea Therefore, many of the middle Factory owners introduced ha (1780-1900)participation. 3. How did the emergence of a middle class Many middle-class men attend develop sport in the nineteenth century? key aspect of life. When they to hir rules to the masses. Teams such as those of factori competitions and matches. Factory owners paid the best a beginning of professionals.





Questions An increase in work opportuni Industrial and Post-industrial Britain (1780–1900) class to move to cities for wor recreational activity within tow Increase in spectatorship of sp 4. Explain the impact that urbanisation had Factory owners allowed worker on sport in post-industrial Britain. to participate in sport or spect New facilities were built to fac lemand for sport and entert ับเอลทisation led to less space games, such as mob football, w More affordable and efficient to The working class could travel 5. Explain how a change in transport changed participation in sport, in post-Increased travelling meant tour industrial Britain. Mass production of cars was no Rural sports, such as rambling, 6. How did increased liter A growth in the printing of newspa people could follow their favourite communication industri ' points' between the public about



Questions • The Church supported sports a t in Luence did the Church have on Sport was promoted as a way @ **Post-industrial Britain** n post-industrial Britain? • Sport could be a method of spr • The Church set up teams (e.g. [8. After the Industrial Revolution, there was A professional was an individual w (1780-1900)an emergence of professional and main source of income. As such, l amateur status in sport. Define the profesionals. In contrast, an ama terms 'professional' and 'amateur' and າ ລy nent of it, without financial 🛚 identify which classes belonged to each amateur athletes as they played s Industrial and category. event. Women were seen as the weaker nin how women were perceived in and the effect their gender had on seen to reflect this. Violent game participation during post-industrial middle-class and upper-class wom Britain. lawn tennis.





Questions

Industrial and Post-industrial Britain (1780–1900)

19 0 E	gotion
and the	Spen.

10. The British Empire spread sports and sporting ideas through its public schoolboys. Outline how each of the individuals/organisations has spread these games



Individuals / Organisation	
British officers	British soldier emergence of of ideas, rules meaning spor with new spo
Factory owners	Middle-class f introducing had best athletes set up, develo football club v
Teachers	Teachers play sporting and r the army and





	Questions		
(1780–1900)	10. (Continued)	Diplomats	Diplomats are other countries spread sport. society and so simple games
ndustrial Britain		rg _y nen	Clergymen an society (e.g. n church when spread the ide
Industrial and Post-industrial Britain (1780–1900)	11. Outline the reasons why NGBs were developed.	 As local sports allow compet More teams w As sport becauprofessionals all). 	quired to meet so developed into itions to take playere being set under more population what were started.





Questions Urbanisation caused an incre The number of athletics even rile now athletics underwent a People were able to participa th in participation in post-industrial Amateurism and professional Britain. class 'professionals' competing Industrial and Post-industrial Britain (1780–1900) The Amateur Athletics Associ More structured athletics eve To encourage personal develo 13. What were the aims of the Wenlock provide a sporting event for Games? Easy to understand with easy Fun, non-competitive games The equipment was only available land). Therefore, they were r Codification: the richer member written and complex rules co played the sport. Lawn tennis provided an opp 14. Identify and describe the key reasons raysical exertion of other sport why lawn tennis developed in 🔻 🗸 L wn tennis was seen as an o nineteenth-century Britain. Many different clubs were se the space (e.g. gardens) and Lawn tennis became fashiona The demand to play lawn ten Therefore, public courts and f participate.



Questions

Industrial and Post-industrial Britain (1780–1900)



15. Discuss four reasons that caused the development of association for the nineteenth-century



Any four from the following:

- Transport: as football became transport of both football playerailway system allowed this.
- Urbanisation: football relied on spectatorship as its popularity
 ic igregated people and allowed
 Spare time: football was a work free time (e.g. half-days on Saturatory work also allowed factory
- Disposable income: working-clands
 This, combined with more free participate in football beyond
- Class system: while football was association football relied on to upper classes to write rules and structured, and paved the way







Emergence of Globalisation of Sport in the Iwenty-Century

Carstic La



1. How have the terms 'amateurism' and 'professionalism' changed in sport from 1950 to today?

The terms amateurism and Instead, amateurism is just professionals compete for fill However, many sports are such as polo and dressage and boxing are associated with the same associated with the s

2. How did the percal on I women change following 1 1 cc a world War?

After the war, the role womeseen to have completed a marked reduction in the view that we participate in a wider range



3. Explain how the roles and status of women has changed in the twenty-first century.

While some gender stereoty men in all areas of life (wage upsurge in female participat Further roles have been occuphysiotherapists and team de

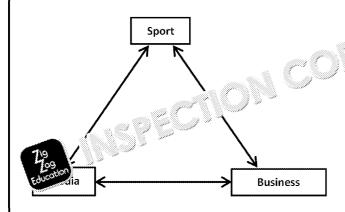




Question^c

Emergence of Globalisation of Sport in the Twenty-first Century

4. Below is the 'golden triangle'. Explain the ongoing relationship between sport, sponsorship and the media.



5. Describe the effect that free movement has had on perform as a new sert.

Sport and the media:

- Sport uses the funding f and range of competitio
- The media recognises sp millions of viewers. Bec sport, such as timings ar

Sport and business:

- Sport uses the funding This money is used to in
- Businesses use sport to advertising platform for

Business and the media:

- Businesses use the med population; for example coverage a sport receiv
- Media receives funding bid for broadcasting rig

Athletes can now participat the best competitors from o support their teams



Question: Emergence of Globalisation of Sport in the Twenty-first Broadcasting more sport € TV sports (nota meaning no Dedicated sp 6. How has media coverage changed since 1950 to Radio radio allows develop sport? national/int∈ Century Provides a p Internet streaming o Fans have a Social media news and up Wimbledon offers the same 7. How has Wimbledon demonstrated a change in the male winner. This demo attitude towards elite female athletes in the nfluence spreads into othe twenty-first century? ¿areer path.





Questions Emergence of Globalisation of Sport in the Twenty-first Century Players can now receive sponsorship deals, allow However, to receive imp must be one of the best to get to the top. 8. How has the commercialisation of sport Commercialisation has impacted on player development? compete at the highest losing their sponsorship To receive some financia personal time to product Commercialisation of sp must act responsibly, as Companies have more as broadcasting. For example 1 a sports channel's TV so 9. Using examples, describe the ways in which Companies have more commercialisation of sport has imparad on a g football pitches, advert sports themselves. Competition formats ar and, therefore, profitab scoring on the server's



Questions Globalisation of Sport in The increasing influence of 10_Defin lisacion'. internationally. Emergence Accept any suitable answers the Twenty-first For example: Some Premier League t 11. Give examples of globalisation of sport. international supporter Influence of sponsors a trophies/competitions) Advertisements during







The Impact of Sport on Society and Society 3 Sport: Sociological The Applied to Equal Opportunities

	Uestions .	
	Education Education	Society is a community of indi
1.	Define 'society' and describe the impact sport has on it.	Sport helps society as people versions society performs well in a sport participate in sport.
2.	'Socialisation' is the conformation of a group	Pr mary socialisation is the soc
	of people to meet the values and habi	the interactions between a yo
	society.	them.
	What is the (1 & 2) wetween primary	Secondary socialisation refers
	19 Visc a secondary socialisation?	person from their teenage yea
		Social control – the regulation a society.
3.	Define 'social control' and 'social change' and explain how social processes can influence	Social change – changes in soc
	sports participation.	Social processes are the progre
		Social processes can limit spor should fill certain roles in socie
(7,9	



Questions Causes 4. Social issues and articipation າະໄປ ກອດple. Socio-economic status / la The Impact of Sport on Society and Society on Sport Lack of role models afy the causes and consequences of social Discriminatory attitudes (e issues on sports participation. stereotyping) Social stratification is the hiera or social status. People at the bottom of the 5. Define 'social stratification' and explair we top have access to sports f can impair sports participation Disadvantaged people do Evident in school and spor therefore, better facilities Children from low socio-ed extracurricular activities. State schools have less fur 6. Describe how social stratification is evident in quality facilities. schools and education. Children from low-income influence their participation However, as per the nation



Questions

The Impact of Sport on Society and Society on Sport

7. Describe how social class impacts on participation in sports clubs.

- Children from low-income
- Low-income families may instead of participating in
- Working-class families living sports (e.g. commonly mic
- Many working-class childre clubs, as are these are con



ાં action theory with relation to eractionist theory.

Social action theory states that interaction (interactionist the influence people have. For ex high socio-economic status is other influential people. How likely to be developed as work have such a high socio-econor

9. What are the potential in the social action theca in the participation?



The creation or advancement within a society. A society can as creating positive attitudes to

Sport can help to develop new



Questions The **Equal opportunities** as s The Impact of Sport on Society and Society on Sport The Discrimination whi≋ 10. Define the terms 'equal opportunities', gro 'discrimination', 'stereotyping' and 'prejudice'. A g∈ **Stereotyping** hov Prejudice A b **Barrier** Poor facility access (e.g. no rar equipment (e.g. sports chairs) Limited number of disability-for 11. Identify four barriers to sports participation trainers/coaches for disabled people. What solutions are there to overcome the barriers identified? ∟ k of advancement in disable due to negative attitudes towa disabled sport Lack of media coverage/expos lack of role models for disable



	Questions		
The Impact of Sport on Society and Society on Sport	12 the term 'stacking' in terms of ethnic participation in sport and give an example of this.	Stacking is a form of stereotyp in certain sports (or positions), sport. For example, in America quarterbacks (decision-makers roles (speed) / or other suitabl	
	13. Define the term 'channelling' in terms of ethnic participation in sport and i ve an example of this.	channelling is the act of intent based on their ethnicity. For e tennis instead of rugby.	
	14. Ethnic is a rind that people have a 19 people it is artitude towards them (i.e. m). Give an example of football campaigns that have attempted to tackle discriminatory views.	 Kick It Out Say No to Racism Show Racism the Red Card 	
	15. Explain how the named barries et ເຂື້ອວາຈed.	Barrier st reotypical views that certa groups are good or bad at cert sports/positions	
	79 Education	Lack of role models	



Questions Barrier The Impact of Sport on Society and Society on Sport Sexist and stereotypical views women in sport Females can be forced down r n: rticipate in female-orientat sports, when they may want to 16. Identify the barriers that exist that ir an ho other sports sports participation in gend ha solutions are there to be a section barriers Lack of media coverage identified? Lack of role models Less sponsorship Lifestyles of women (e.g. seer domestic/child-minders) 17. Describe A A Shr which sports Community-run projects t anand local clubs can change in to the participants) or to cater for disadvantaged, low-Reduced membership fee acome families.



Questions Health benefits The Impact of Sport on Society and Society on Sport Keeps weight at a healthy Reduced risk of type II dia Decreased risk of cancer 18. Identify six health and fitness benefits that Reduced risk of cardiovas participation in sport can have on people. diseases Reduced blood pressure Increased bone health Reduced risk of depressio mental health issues Sporting success can impr 19. Describe 1 4 a Denefits that Improved social skills of p ic 🐧 . 🧰 in sport can have. Lower crime rates as peop Enhanced relationships from To promote participation To improve the standard 20. Identify the roles and aims of Sport England. Lottery funding provides s Sport England supports go





Questions on Society and Society Local partners are concern (county sports partnership participation rates. Local partners are called c 21. What is the role of local partners and how CSPs are responsible for in do they link with Sport England? CSPs focus on participation on Sport sport / better facilities / ir sport. Sport England oversees th The Impact of Sport Organisation of and struct Implementing plans to inc t are the aims of national governing vodies (NGBs)? Remove barriers that may Invest time and money int



Questions

The Impact of Sport on Society and Society on Sport

Zig Education

23. National partners are linked with Sport England with specific aims to improve sport and participation in certain groups of people. For each of the national partners mentioned, provide their aims.

National Partner	
English Federation of Disability Sport (EFDS)	• Improve
UK Sport	Work wi elite spoFunding and rese
Women in Sport	To increa To prom





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3.1.4 – Exercise Physiology Diet and Nutrition

	190 stions		
	Education	Dietary Component	
		Carbohydrates	Provide the largest amo
Votrition	1. Name the seven company	i or iss	Made of amino acids, protissue and helping musc small source of energy.
Diet and Nutrition	of a health and diet and roll franctions of each.	Fats	Provide insulation to the intensity and are also us Fats also transport vitar
		Mine	Provide numerous bene calcium (bone growth as balance and is key in ser accompanying vitamin

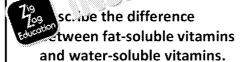




Questions Benefits dependent strengthen the imm Vitamins oxidative damage from mineral to help that Fibre aids the digest 1. (Continued) 6. Fibre suits the exercise. F delayed or slow-rele **Diet and Nutrition** Water is key to perf 7. Water fluids replaces water avoid headaches, diz Saturated fats come from sources such and desserts. Saturated fats are cons increased blood pressure and heart d 2. Identify the three types of fat Trans fate primarily come from man-r and explain the difference r Lateir life. They are also synon between them. diabetes in the UK. Unsaturated fats are considered to be and vegetable oils. Unsaturated fats heart disease.



Questions



- Fat-soluble vitamins such as vitamins a soluble vitamins are stored in fat tissue be avoided.
- Water-soluble vitamins are not stored these can be excreted in urine.

4. List five consequences of dehydration.

Diet and Nutrition

- Any five from the following, or any other s
- Increas * breathing rate
- 2038 of consciousness
- Constipation
- Heat exhaustion
- Headaches
- Decreased stamina
- Decreased strength

5.	Fill in the missing dietary	
	components, matching the	

Dietary Component	
Fibre	Bran cereal, brown
Water	Drinks
Pachs	Meat, milk, eggs a
Carbohydrates	Potatoes, rice and
Minerals	Green vegetables,
Fats	Avocados, butter,
Vitamins	Fruit, seeds and w





	Questions			
	6. Explain the petween im, the complex body drates.	quick energy. C	drates such as sugars from omplex carbohydrates Cor r delayed source) or energ	
on	7. Name the health risks associated with eating too many saturated fats	 Excessive weight gain / obesity Coronary heart disease High blood pressure High cholesterol 		
N String Fire	8. When are fats used as a source of energy in physical exercise	[grir_ 'w-intensity exercise		
Diet and Nutrition	79 NSPECTO	С	Maintains the functional bones and teeth to prevent osteoporosis.	
	Education	D	Helps the body to absorb	
	9. Describe the functions for the named vitamins and minerals that can help sports performance	Nitamin B1	Helps to break down pro nervous system.	
		B2	Helps to break down carl the correct functioning o liver and skin.	





Questions Aids the production of ho **B6** neurotransmitters which Vitamin with the production of ha Increases metabolism (b **B12** Diet and Nutrition health of nerve cells and 9. (Continued) Helps in cell maintenance Sodium sodium helps to control Key mineral in the creation Iron with the transport of oxy Growth and developmen Calcium 10. What is the recommended Men: 2500 kcal energy intake for men and 2000 kcal women? Women:



Dietary Supplements and Manipulation

Athletes that require high levels o creatine to supplement weight trace. Creatine increases the stores of plant the energy source of the body. If therefore, ATP – they have more
 Dehydration Water retention (weight gain Muscle cramping Some evidence of kidney dan Muscle cramps
the pH levels of the blood and mubicarbonate can secure the pH levels of the blood and mubicarbonate can cause stomach u



Questions increased alertnes Benefits: > benefits of consuming metabolism for en ffcine before an event? What side Dietary Supplements and Manipulation fects can be caused by caffeine Side consumption? dehydration/diure effects: Accept suitable examples, e.g. a r 5. Give an example of an athlete who would benefit from carbohydrate Carbohydrate loading attempts to loading and describe the benefits \ Jy as carbohydrates/glycogen. carbohydrate loading would give then ه التعالى الت 7 days before event: endurar Pro 🔥 🖫 eime and plan for an 6–4 days prior to event: athle thi 🗤 wanting to complete continued at a similar intensi Prbohydrate loading in the week prior 3–4 days prior to event: carb to an endurance event. very low. Fatty foods should 7. What is a risk associated with Digestive problems carbohydrate loading? oating





-30	Jestions	
Edi	ine 'validity'.	Validity is the degree to which a tes
2.	Define 'reliability'.	Reliability is the 'repeatability' of a produce the same, or similar, resul
3.	An athlete was asked to jump as high as they could as part of a fitness test. They produced a jump once a week for five weeks, at the same time of day, using the same method eir jump heights was asked to jump as high as they could be a week for five weeks, at the same time of day, using the same method eir jump heights was asked to jump as high as they could be a week for five weeks, at the same time of day, using the same method eir jump heights was asked to jump as high as they could as part of a fitness test. They produced a jump once a week for five weeks, at the same time of day, using the same method eir jump heights was asked to jump as high as they could as part of a fitness test. They produced a jump once a week for five weeks, at the same time of day, using the same method eir jump heights was asked to jump once a week for five weeks, at the same time of day, using the same method eir jump heights was asked to jump once a week for five weeks, at the same time of day, using the same method eir jump heights was asked to jump once a week for five weeks, at the same time of day, using the same method eir jump heights was asked to jump once a week for five weeks, at the same time of day, using the same method eir jump heights was asked to jump once a week for five weeks, at the same time of day, using the same method eir jump heights was asked to jump once a week for five weeks, at the same time of day, using the same method eir jump heights was asked to jump once a week for five weeks, at the same method eir jump heights was asked to jump once a week for five weeks, at the same method eir jump heights was asked to jump once a week for five weeks, at the same method eir jump heights was asked to jump once a week for five weeks, at the same method eir jump heights was asked to jump once a week for five weeks.	te t is reliable. The methods usine test is also performed at the saperformance, such as amount of sletter than the method usine the test and the athlete are
4.	The sit-up test was used on an athlete to determine their maximal strength. This is not a valid test. Explain why this is not a valid test.	It is not valid because a sit-up test of determine the muscular endurance strength of an athlete.





	Questions		
	799 havis quantitative data and what is substitute data?	Quantitative:	Data that consist emotions and it
		Qualitative:	Data that is come emotions, thoug
ations	6. What is objective data and what is subjective data?	Objective:	Measurable data testing.
Testing:		subjective:	Data that consist measured.
	7. Give an example of a fitness test that provides quantitative, objective data.	Accept any suitable answers – fit Sit-and-reach test Jump-and-reach test Bleep test Handgrip dynamometry One repetition maximum (1) 'p test Ccoper 12-minute run	
	8. Give an example of your code, subjective do a factorist do a factorist de a factorist de la		exertion (RPE) / Bghts and opinions



		<u>/ </u>	
	Que		
Warm-up and Cool-down and Principles of Training	1. Describe the physiological benefits of completing a warm-up.	 Any from the following: Increased temperature which in likelihood of injury Increased speed and strength of lincreased heart rate increases of lincreased breathing rate and demuscles Adrenaline is released (fight or for cise) increased muscle temperature oxygen and energy production relations Increased speed and efficiency of lincreased speed and efficiency or lincreased speed	
 and	tify an athlete who would benefit from the stretching types given.	PNF	e.g. A ballet dance
l wob		Passive	e.g. An athlete reco
00		Dynamic	e.g. An athlete war
) ည (၂)		Ballistic	e.g. An elite gymna
Warm-up an	3. Describe the physic of completing and the completing of the com	 Jids the removal of lactic acid for Reduces the likelihood of develor Helps to prevent blood pooling a heart Gently lowers of heart rate and systems) 	



Questions Holding a stretch in t Static Warm-up and Cool-down and Principles of Training approximately 30 se stretching assistance) and pass 4. Describe the two types of stretching an athlete can use to increase their flexibility. Sudden, fast bouncir forces the muscle be **Ballistic** due to its high risk of stretching sudden, powerful mo Training should be sp Specificity would not improve t Training should prog **Progressive** nnis player wanted to improve adaptations can con overload their fitness by beginning a training court sprints they co programme. Name and describe the principles of training they should Training needs to be consider. Reversibility training are not lost, week. Training must includ Recovery the likelihood of inju



Questions Frequency The number of times Warm-up and Cool-down and Principles of Training co sinually improve performance Intensity How hard the perfor fitness, athletes should make training harder each time. Describe The duration of the Time the principles of training that can be used to progress training. The type of training Type performance. A macrocycle is a lar Macrocycles are mad 7. Describe the three A mesocycle is typical periodisation Mesocycle elements throughou Microcycles are typic Microcycle The cyclist's macrocyle would be for of the year. The cyclist's macrocycle Apply the three principles of cvc! ു ay work on four key elemen periodisation to a long-distance road ်n 👔 ့် month. Each mesocycle woul cyclist. Each week will focus on one training spent increasing the cyclist's endura



	Questions		
Training	79 Jugaran	1. Preparatory phase – commonly 'p levels following a rest period to the second secon	
ples of	9. Name and describe the three phases of training.	2. Competitive phase – commonly competing for.	
d Princ		3. Transition phase – follows the co This phase leads back to the prep	
Warm-up and Cool-down and Principles of Training	10. Why are phases of train by ming increasingly in anti-	of performance and fitness for long preseason to gradually get back to p must then maintain performance ov	
	11. What is the concept of tapering?	Tapering reduces the volume of train maintains the intensity during training	
Warm-	12. If tapering is performed correctly, 'peaking' can occur. What is 'peaking'?	Peaking is a direct result of good tape	
	79 JUSPECTION S		



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	Ques' 1s		
Training Methods	1. Describe a training methods used to improve flexibility. Explain how the process is completed.	Proprioceptive neuromuscular facilitat muscle, then making it resist isometric PNF is carried out by passively stretching athlete then contracts the muscle isom against the limb. Passive stretching is than the original active stretch.	
	2. Name 3 11 11 11 12 two types of 19 1in hat are used to improve sic endurance.	Continuous training	Training that in no rest breaks,
Tro		Fartlek training	A mixture of in low/medium ir then return to
	3. Define 'VO ₂ max'.	VO ₂ may in the maxim	al volume of oxy
	730 Marion Mario		





Questions Any three of the following: high capillary density high proportion of slow-twitch mu lower body fat percentage State three physiological features of higher levels of oxidative enzyme an individual with a high VO₂ max. greater cardiac output large lung volume large red blood cell count strong respiratory muscles – diap **Training Methods** abdominus and intercostal muscle ा er र training involves short bursts o 5. Describe interval training. Whi Atensity exercise is then repeated. element of fitness docu Interval training improves anaerobic po Interval training can be adapted by cha are the ways in which interval Recovery times training can be adapted to suit Work-to-rest ratio different athletes. **Duration of exercises** Intensity of exercise completed 7. What main component of fitness M ு ் ா ்durance (however, can be does circuit training target? r , ...er, agility, flexibility)





	Questions			
Training Methods	8 /ia enefits to a hockey 103 or that circuit training can have planned effectively.	 Any of the following: Can be adapted to work on releval in hockey. Whole team can participate, even Can include sport-specific skills such 		
	9. Identify one disadvantage of circuit training.	 Any one from: A lot of equipment (including special) A lot of space/facilities may be required. Can see high levels of fatigue 		
	10. Weight training can be used to improve strength. When he is by 'one repetition's min' (1RM)?	The amount of weight that can be lifted		
	11 through the terms 'repetitions' and	Repetitions:	Repetitions are sequence. It us set.	
	'sets' with respect to strength training.	Sets:	A set consists o repetitions.	
	12. Complete the table of guidelines outlining the resistance of guidelines for each type of conget	Tv Si ength	% 1RM	
		Muscular endurance	<70 %*	
		Maximum strength	70-85 %	

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3.1.5 - Biomechanical Movement

Biomechanical Principles

	Cuestions		
	1. Define Newton's first law of motion	Definition:	The law of iners
Principles	and give a sporting example of it in use.	Sporting example:	A golf ball on a unbalanced for (accept suitable
Biomechanical Principles	793 inc Newton's second law of	Definition:	The law of accerthe force applied to it.
Biome	of it in use.	Sporting example:	A golf ball being (the direction to is hit by. The had acceleration. (accept suitable)
	73.000		





	Questions		
	703.00	Definition:	The law of reacreaction.
Biomechanical Principles	3. Define Newton's third law of motion and give a sporting example of it in use.	Sporting example:	During a gymn produce enoug applies an equal (through the garaccept suitable)
anic	4. Define 'net force'.	Ne Srce is the sum	of all forces acti
iomech	5. Define 'ground tiry force'.	Ground reaction for the force a mass exe	
	celerate a 0.5 kg mass by 50 m/s.	Force (N) = mass (kg Force = 0.5 kg × 50 r	
	Show your calculations.	Force = 25 N	

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Questions

719 Education Arrows should be equal in length and acting directly opposite each other.

7. During a scrum in rugby, neither team has an advantage over the other. They are creating a balanced force. Draw two arrows on the diagram to represent the balanced force.





Biomechanical Principles

One arrow should be noticeably large Ensure arrows are acting directly oppositely

8. Another scrum occurs in the match and one team creates an unbalanced force in the scrum, forcing their opponents backwards. Draw two arrows to represent this unbalanced force.







	Questions	
Biomechanical Principles	Secretarine the term 'weight'.	Weight is the effect gravity has on the Also accept: Weight (N) = mass (kg) × acceleration Students must clearly differentiate be measured in Newtons.
	10. An athlete is completing a vertical jump test. Newton's third law states that for every action there is an opposite and equal reaction. What changes in force must the complete to move in all the complete to move in all the complete.	The te must produce an upward or and (mass × gravity). For example 650 N, the athlete must create an up
Biol	distance. Include units of measurement.	Speed (m/s) = distance (m) ÷ time (s)
	12. Define 'the centre of mass'.	The centre of mass is the point in or a concentrated.
	7.00 1 1 5 7 E C 1 1 0 1 1 C 1 1 1 1 1 1 1 1 1 1 1 1 1	

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Questions



12. Explain the factors that affect the position of the centre of mass.

The centre of mass (CoM) is the local concentrated. As such, CoM can be body, can change its shape to change a Fosbury Flop will have a CoM outside

Mass of an object (and the location of sumowrestler has a greater mass around marathon runner.



la) way a skier would bend their es to become more stable.

- Centre of mass (CoM) is related where the centre of mass is in related the CoM is inside, the body is stall
- Objects with a lower CoM are m
- By bending their knees, the skie
- Bending the knees helps to wide
- A combination of a lower CoM a





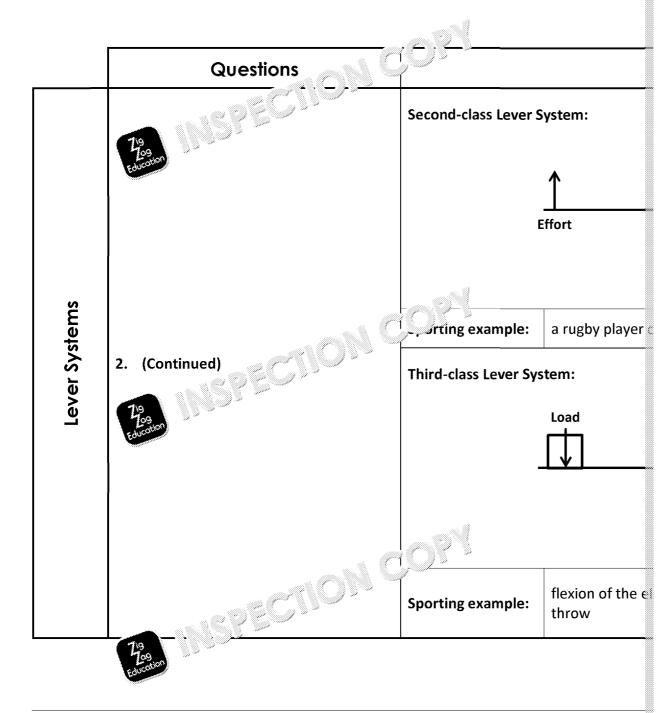
Lever Systems

_		Qus jors		_
		700	Load:	a weight that needs to
		Edizato	Effort:	the force required to
		1. Define the terms 'load', 'effort', 'fulcrum', 'effort arm' and 'load arm'.	Fulcrum:	the point around whic
			Effort arm:	the distance from the
	SL		Load :	the distance from the
	′sten	second- and third-class lever systems. Give a sporting example of the lever in work.	First-class Lever System:	
Lever Systems	Lever Sy		Effort	
			example:	extension of the blocks

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Questions Second-class levers allow large mass ್ಷ second-class lever producing a large force. This can be antageous over first- and thirdlonger effort arm than the load arm. class levers? Lever Systems moved, but this occurs at the expensi (accept any appropriate example) Third is lever system: 4. Give a sporting example of a third-ອາເງິດເມື (elbow flexion) – upwards ເ class lever system. Identify the loar effort and fulcrum. Load = dumb-bell Effort = biceps brachii Fulcrum = elbow joint



3.1.6 – Sport Psychology
Psychological Factors that Connected an Individual in Physical Actions and Provided in Physical Action (1997). Personality

	Questions	
	1. Define 'personality'.	Personality is the combination of mar
a y	2. Define 'trait'.	A trait is an everlasting feature of a p
Can Influence c ivity: Personality	3. Outline the debate regarding 'nature vs nurture' in personality formation	Personality is the combination of charger. In a small part of his cure. However, some argue that personality from other people (nurtue)
Psychological Factors that Can Influence an Individual in Physical Activity: Personality	4. Outline the social learning theory of personality.	The social learning theory hypothesis match the social situation they are in experiences to apply the correct behinitated from people seen as significative. Behaviour = Function of environments
Psycholog Individue	5. Outline the trait the one of the personality of	Trait theory states that personality is personality is innate and unchanging 'strongest' traits having larger effects i.e. Behaviour = Function of personal



Questions The interactionist theory suggests the Psychological Factors that Can Influence an personality traits and the environme tlin the interactionist theory of Individual in Physical Activity: Personality adapting to their surroundings and s onality. i.e. Behaviour = Function of (Personal Hollander's model demonstrates tha innate (trait). However, attitudes ca Explain how Hollander's model † ... il responses supports interactionist theory. le-related behaviours social environment Interactionist theory states that peop the environment they are in. 8. Using a sporting example, explain e.g. A netball player is normally calm how interactionist theory can impact opposition are aggressive and the cr on performance. behaviour and becomes more aggress their colosition, improving their per





Attitude	S			
	Que ons			
Ë	79 fin յւմւude'.	Attitude is an emotional feeling as a		
<u> </u>	Educa	Factor		
Indivic		Personality type	The many diresponse to	
nce an udes	2. Name and describe the factors that affect the formation of attitude.	Social influences	The effect the individual's	
ո Influe y: Attitւ		Personal experiences	Based on presituation in	
hat Caı I Activit		Conditioning	Reinforceme can influence the future.	
Psychological Factors that Can Influence an Individual in Physical Activity: Attitudes		Component		
		Affective component	The emotion towards it,	
ologica	3. Outline the three components of attitude as proposed in the Triadic Model	se i jioural component	How an indipositively to attitude tov	
Psych	19 NSPEC NO.	Cognitive component	The individu	
	Education	I.	1	



Questions

g Individual in Physical Activity: Attitudes Psychological Factors that Can Influence



 Explain how persuasive communication can aid attitude change.

- This method uses communication numerous factors.
- Firstly, the individual must be will
- They must also be willing to changed of someone with a stronger attitude
- If the persuader is of a higher staindividual, the message is more like
- The ersuader should aim to present the individual throughtenance of the individual thr



5. What is meant by 'cognitive dissonance'?

Cognitive dissonance is the change of towards something. A conflict in attachange their behaviour to reduce the any of the three components of attitudes.







^çin ∋ı ∋usal'. Arousal is an increase in mental and Psychological Factors that Can Influence an Individual in 2 uentify the theory of arousal represented by the graph below and give a brief explanation of what the theory states. High Physical Activity: Arousal The theory that performance is p Performance levels infinitely inc As arousal increases, more focus what the athlete believes to be t Low Low Level of Arousal High Drive theory assumes that arousal ar does not apply well to sports that re 3. What are the limits theory (frc player is too aroused in the lead-up t their excitement and get sent off the



Questions an The inverted-U theory suggests that However, it states that for each pers Psychological Factors that Can Influence Individual in Physical Activity: Arousal High Performance Level Explain the inverted-U theory and draw a graph to represent the theory. Low Low 5a. Describe the differences in optimal arousal between a novice and an The optimal arousal levels for a novi / extroverts. This is because introver expert, or an introvert and an extrovert.



Questions an Individual in Optin for Performance 5b. Draw a graph to show these differences. Psychological Factors that Can Influence Physical Activity: Arousal Catastrophe theory is the theory that 6. Describe the catastrophe theory of an athlete to an optimal arousal level arousal. in arousal level, past the optimal aro performance level. ം ഹ്owing a sudden drop in performa 7. Explain how performe a fev i can optimal) state of performance by red be recovered of a first satrophe'. This if often done by motivation from further arousal.



	Questions	
Can Influence tivity: Arousal	polant is meant by 'zones of imal functioning' and how they ary from person to person.	A zone of optimal functioning refers a task (see inverted-U theory and cat arousal to successfully perform a tas arousal to perform a task to the best
rs that (iical Ac	9. Describe 'peak flow experience'.	Peak flow experience is the state of r game. Athletes aim to experience pe
Psychological Factors that Can Influence an Individual in Physical Activity: Arousa	10. What are the states of year flow state?	 High self-awareness Advanced levels of control over Maintaining maximum focus on Performance of a skill feels efformance State of relaxation Time feels slowed down

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Anxiety		3081		
	Queriens			
dual in	1 79 anxiety'.	Anxiety is a feeling of threat.	nervousness or a	
an Indiv	2. Name and describe the two types of	f unchanging. Competitive state The respons	A person's nat unchanging.	
uence (anxiety.		The response of temporary res	
Psychological Factors that Can Influence an Individual in Physical Activity: Anxiety	3 cr. Comatic responses to	 Headaches Tension Increased heart rate Increased respiratory rate Loss of appetite ('butterflies in some support of the suppor		
	4. Describe the cognitive responses to anxiety.	 Loss of concentration Contains Loss of concentration Loss of concentration Loss of concentration Loss of concentration Feeling Reduced thoughts Reduced decision-making ability Feelings of dissatisfaction 		



an Individual in Psychological Factors that Can Influence **Physical Activity: Anxiety**

Questions

5. The Sport Corpor Laxiety Test (SCAT) So report questionnaire valuate an athlete's ngs prior to competition and their attitudes towards sport in general.

Describe the advantages and disadvantages of SCAT.

Name and describe two more methods of assessing anxiety in

athletes. Identify any advantages

disadvantages of each method.

Advantages:

- High reliability the athlete is likely
- High validity SCAT has been show

Disadvantages:

- Performers may not tell the truth of are more acceptable or that they to
- Coaches/trainers can adapt their training to minimise the effects of anxiety.

	Me+l 1	Description
or	Physiological tests	Measurements of physiological respons such as heart rate and sweating to a number situations that may cause anxiety
.	bservational methods	An external person watches an athlete perform and records any signs of anxiety



Aggres	sion	
	Questins	
fluence an ggression	1. 1930 e 'aggression' in a sporting ontext. How is assertive behaviour different from aggression?	Aggression is the intentional behaviour a into either channelled aggression or hos. Assertive behaviour is forceful behaviour not involve harming others and is within
Psychological Factors that Can Influence an Individual in Physical Activity: Aggression	2. Describe the instanting of aggressing and lighting of the large of	The act heory of aggression propose chysteristics that they cannot change. Instinctive aggression characteristics that everyone as a release of energy. It has be aggression so the individual is calmer out. However, the theory does not take into argue that sport doesn't provide a platfor people. Aggressive behaviour can also be evolutionary advantage (as it might have
Psy In	3. What is meant by the term 'catharsis'?	of relief or calmness, following
	79 July 19 EC 11 Constant	





Questions an Individual in Physical The social learning theory proposes that others. An individual witnesses aggress ್ರು ುcial learning theory behaviour in similar situations. gression and highlight its ntations. The theory, however, does not acknowl suggesting that not all aggression can The aggressive cue hypothesis suggests an individual, leading to increased arous 5. Using a sporting example, explain However, +1 is aggression is not released the aggressive cue hypothesis. Aggression Can Influence the well. When the defender finally n aggression towards the defender by push - Justration-This hypothesis argues that there is a dire Activity: ssion hypothesis explain aggression is the result of increasing frust ession as a result of aggression and the source of the frustrat **Psychological Factors that** frustration? Fines – clubs and players can be 1. 2. ation – players can be educ 7. Name and describe five strategies that could be used to control Lowering arousal levels – arousal aggression. controlling arousal may reduce t Removal – removing a player from メバン ention Accept any s 2. 4. 'catastrophe' (catastrophe theo Rewards – rewarding non-aggre 5. non-aggressive behaviour in the



	Questings	
ndividual	1. to 'intrinsic motivation'.	Intrinsic motivation is motivation that o individual's intrinsic feedback (positive towards sport.
nce an l ation	2. Define 'extrinsic motivation'.	Extrinsic motivation is motivation that confrewards that can motivate the individual
Factors that Can Influence c Physical Activity: Motivation	3. What are tangible and intermiting rewards? Give excepted and intermiting the second and intermiting	ra gif rewards are rewards which car ponsorship. Intangible rewards are non-physical rew positive feedback such as praise from a
Psychological Factors that Can Influence an Individua in Physical Activity: Motivation	4. Explain how extrinsic motivation would be used to motivate a beginner in gymnastics. Give examples of extrinsic motivation.	 Extrinsic rewards help to motivate so Acts as a motivator to reinforce god experiences (e.g. a treat after the less come of tive young people can use to continue participation of the motivation to keep going.
	12.9 Auction	



Questions Psychological Factors that Can Influence At an elite level, footballers are abl intrinsic motivation an Individual in Physical Activity: motivation. ould benefit an elite football Players can play for enjoyment / lo Elite players are competitive and so Motivation Tangible and intangible rewards ar original e from sources external to Explain how a rugby player (Fight, player would be motivated would be extrinsically motive της season by winning their league using tangible and " term season as they have an end go rewards. Intangible motivation would be pra the player to perform well in each in next match.





Can Influence an Individual in Physical Activity: Social Facilitation **Psychological Factors that**

al F	-ac	cilitation		
		Querties		
	1	79 re 3 carracilitation'.	The positive impact	performing in front
	2.	Define 'social inhibition'.	The negative impac	t performing in front
5	3.	What effect would an audience	Beginners:	High arousal leads to concentration to perconcentration.
		have on beginners and experts of a sport or skill?	Expert.	Social facilitation – the task or skill and
	4.	Zajonc suggest the plantour tunes of the wino can affect vill a responses during rmance. Identify these others.		ers (not direct compe ers (direct competitio
	5.	When low-level or experienced performers compete in front of an audience, they experience 'evaluation apprehension'. Describe evaluation and the effect in	your performance. ' ' ' ' ' ' ' ' ' ' performe ' arousal. They sta Experienced athlete	nsion is the perceptions rs will display a negal art making mistakes, as will display a position ence, causing them to
	L	79		

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Questions

Psychological Factors that Can Influence an Individual in Physical Activity: Social Facilitation

6. Would and in Frenead to social facilitation an athlete performs simple and complex skills? Explain why.

Complex skills require higher levels of coperformance. This is because complex skill. The performance of a simple skill warousal, as simple skills are often more a

7. Identify the strategies that can be implemented to minimize social inhibition.

Accept any suitable strategies:

- Focusing on the important cues (skill
- Men rehearsal
 - (Schitalic

kélaxation exercises

- Positive reinforcement
- Overlearning of skills (skills becoming)
- Practising in front of an audience
- Goal setting









Group	Dynamics		
	Questions		
	1 79 ti group?	A group is a body of pe	eople that sha
e an Individ amics	Edicass	1. Forming	First meeting interrelation focus on with
Psychological Factors that Can Influence an Individual in Physical Activity: Group Dynamics	2. Describe the four stage പ്രവിശ്യാ	cause spl the next	At this stage cause spling the next stage
	formation, 25 20 Ly Tuckman.	3. Norming	Problem-so stage. Indiv the team ar resolved, te
		4. Performing	As a whole achieve the skills to help
Psycho	3. What is group cc' on:	Group cohesion is the group, to work toward	



Questions Task Is concerned with the o cohesion: on the performance of ri၊ ော့နေန cohesion and social an Individual in Social How well a group of pe cohesion: 5. Write an equation to represent Actual productivity = best potential Steiner's Model of Group Effectiveness. **Group Dynamics** Psychological Factors that Can Influence rdination losses – group me Using sporting examples, describe the roc ball team of talented indivi factors that cause losses due to sailt Motivational losses – an increas losses in others (Ringelmann ef processes. many squad members so other Physical Activity: The Ringelmann effect is the reduct **Explain the Ringelmann effect and its** This leads to members of the group relationship with social loafing. effort of an individual in a team due sometimes, laziness due to the perc Improve communication betw Ensure each member of the gr 8. What strategies cov' and the strategies Make sure each member of a strengthen > 3 m. ...d team The correct leadership style sh Group/team performance sho Allow group members to involve



Goal-s	etting		
	Questins		
.⊑		Goal Type	Descri
dividual	Education	Outcome goals	Goals that are only corresult of a performant losing)
Psychological Factors that Can Influence an Individual in Physical Activity: Goal-setting		Task- orientated Goals	Goals that are only coat hand. These goals at the completion (not suitask.
		related Goals	Goals that are concern or standard, of the per
s that C Il Activit		Process goals	Goals concerned with a execution of a task
gical Factors Physical	2. How do goals affect confidence and self-efficacy of an athlete?	Completing tas	erefore achieving, attain ks and increasing confid w to overcome similar c
Psycholog	3. What effect does reconsists the service on task persists the service archiete?	Having shorter	rm goals helps to maint -term goals (that are still motivation to keep push



	Questions			Answ
n la	79 Feducation	S	pecific – goals should have precise ain	
Psychological Factors that Can Influence an Individual in Physical Activity: Goal-setting		М	Measurable – goals that are able to be performance.	
=			For example, an athlete aiming to impr	ove aerobic fitnes
ice ar etting		А	Achievable – goals should be challenging their confidence when they reach their	
l-s			For example, a foot any air, ing to wir	the ball in 60% o
in Influ	4. Using sporting examples,		Realistic list goals allow the perf	ormer to believe t
ပိ €	describe t'	ı	For example, a marathon runner aimin	g to improve their
Factors that Can Influence al Physical Activity: Goal-setting	79 R 1. 109 iple of goal-setting.	т	Time-bound – putting a time limit on a motivation to complete the task.	chieving a goal cre
<u>5</u> 5			For example, being able to run the 800	m in 3 mins 30 se
al Fac		E	Evaluate – coaches and performers sho successful methods during this time he	•
logic			For example, a swin no mile ng extrins more extrins of of coon will be used	
sych		, R	me c der evaluation, the performer ampleted. When this has been decide	
	79 Education		For example, a rower just misses out o attempt this goal to reach the national	- 33



3.1.7 – Sport and Society and the Jule of Technology Physical Activity and Start

The Role of Technology Strain Activity and Sport

	703 Reducation Questions		
Technology for Sports Analytics	1. Explain the importance of video analysis programmes in sports performance.	Video analysis allows coaches an Technique Efficiency of movement (e.g. Providing statistics (e.g. poss or en positioning an be used to analyse oppo	vement (e.g. gait anics (e.g. possession)
	and sports biomechanics with regards to motion analysis. Give examples of how each could be used.	Notational match analysis	The analysis of speciformance in was pects of performance monitored
		Snort or echanics	Analysis of sporting studying why some (kinetics) and how moves (kinematics)
	3 79 v i	A metabolic cart det calorimetry which n provides data to cal	neasures the volun



	Questions	
Technology for Sports Analytics	4 79 at 11 mect calorimetry?	Indirect calorimetry is a method of stu analysing the gases (oxygen and carbo The equipment used in indirect calorin
	5. What is GPS used for and what sports can benefit from its use?	GPS (Global Positioning System) can tracceleration and deceleration of an at athlete's body undergoes during comprugby and hockey.
	6. Ps is being used by ge that population to aid characteristical activity.	Modern phones and tracking systems and accessible to the general population are completing daily and allows them phones and watches can monitor the calculation of acceleration and decelerable health and fitness levels.
	7. What is meant by the term 'data integrity'?	Data set ity is ensuring that data collisions of error enter the data. This rame between collecting the data and
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	Questions		
	8. 15 nt in the factor of a sports in the sports of the sp	Any three from the fol Using trusted com Using encryption s Creating backups o Double-checking tl Regularly scanning	puters and not confitware of files he data you input
Technology for Sports Analytics	9. What must data and data collection methods be, to maintain data integrity?	Reliable, valid and acc	urate
	10. Name the ways that data integrated can be maintained.	 Example testers have the correct Validing software malfunction and backed-up. Password-protecting data to avoid Using software to detect and respect 	
logy f	11 draw an example of qualitative data	Sports physiology:	e.g. Rate of pe
echno	that may be collected in sports physiology and sports psychology.	Sports psychology:	e.g. Questionn example
J	12. Explain why it is important modern technology collects objective data	Objected ata is factural of the latest ata is factural of the late	ore, providing t
	13. Explain who is a collect subjective from modern technology in collect.	Subjective data is not necessarily fact a situation, such as emotions, opinior different meanings, depending on wh	

