National Mock Exams 2024

POWERED BY ExamSimulator

Model Answers IGCSE PE Paper

This document contains:

Model answers for the National Mock Exam guestions

How should schools use these papers?

These model answers are written to support PE teachers and students review the National Mock Exam 2024 and to prepare for the live revision session delivered by James in April 2024. We strongly recommend that students learn these model answers in preparation for the summer exams 2024. The questions posed and the answers provided are based on significant analysis and model BOTH content and skills.

Please, use these model answers in combination with the National Mock Exam paper, mark scheme and the revision session (Wednesday, 24th of April 2024, 15:00-16:30), available via the IGCSE PE Revision page:

https://pages.theeverlearner.com/2024-igcse-pe-revision

All questions are taken from ExamSimulator. ExamSimulator is a premium resource available via TheFverl earner com

I hope this helps both students and teachers in their exam preparations.

James Simms



Subject	Physical Education
Course	IGCSE PE 0413
Time allowed	1 hour 45 minutes

First name	
Last name	
Class	
Teacher	

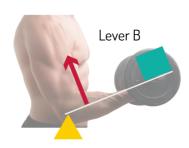
	IGCSE PE 9-1 and 0413 National Mock Exam 2024	Title
--	---	-------

Guidance	 This paper is relevant for both iGCSE PE 9-1 students and iGCSE PE 0413. This paper is marked out of 100 marks. You have 105 minutes (plus additional time for those who have Exam Access Arrangements). Answer all questions. A calculator is permitted for this exam. Good luck.
----------	---

Total marks	100			
-------------	-----	--	--	--

1. Look closely at this image. Which two lever classifications are represented?



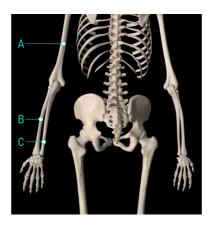


Lever A is a: First-class lever

Lever B is a: Third-class lever

Marks: [2]

2. Look closely at this image. Name the three long bones that are labelled with letters A, B and C.



Bone A is the: Humerus

Bone B is the: Radius

Bone C is the: Ulna

Marks: [3]

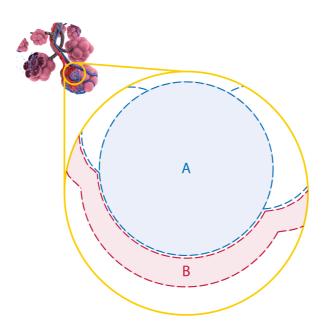
3. Describe the function of a long bone.	
A long bone enables gross movement.	
	Marks: [1]
	Marks: [1]
4. Identify the range of movement at a hinge joint.	
Flexion to extension	
	Marks: [1]
	riarno.
5. Identify the range of movement at a ball-and-socket joint.	
- Flexion to extension	
- Abduction to adduction	
	Marks: [2]
	_

6. Describe three	positive effects of exercise and fitness on social health.
Positive effect 1:	A positive effect of exercise on social health is that it can reduce
	loneliness.
Positive effect 2:	A second positive effect is it helps in meeting new people.
Positive effect 3:	Lastly, exercising with others can lead to developing communication
	skills.
	Marks: [3
7. Describe the re	elationship between health and fitness.
Ill health can lead to	being unable to exercise, which results in fitness decreasing. High
levels of physical fitn	ess do not necessarily lead to high levels of mental or social health.
	Marks: [2
8. Suggest two sl	nort-term effects of exercise.
Short-term effect	1: Increase in heart rate
Short-term effect	2: Increase in sweating
	Marks: [2

9. Explain how the structure of the heart changes to improve efficiency as a result of long-term training..

Regular training can lead to cardiac hypertrophy, which is where ventricular walls become
thicker and stronger. This, in turn, leads to stronger contractions of the heart. Due to the
heart being able to pump a greater volume of blood per beat, there is a reduction in
resting heart rate called bradycardia. Being able to pump blood more forcefully also
means stroke volume and cardiac output increase. This is due to the heart pumping a
larger volume of blood per beat and, therefore, per minute.

10. Look closely at this image. Identify feature A and feature B.



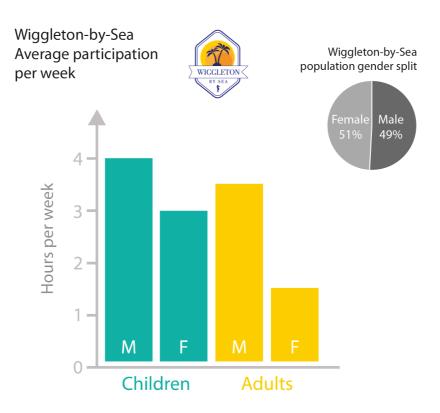
A is:	Alveolus	 	 	 	 	
B is:	Capillary	 	 	 	 	

Marks: [2]

Marks: [6]

11. Describe gaseous exchange at the lung.
Gaseous exchange occurs at the lungs as a result of the diffusion of gases. The
concentration of oxygen in the alveoli is higher than in the capillaries. Oxygen moves into
the capillaries from the alveoli and is then transported to the working muscles and vital
organs. Carbon dioxide moves in the opposite direction from the capillaries into the
alveoli.
Marks: [2]
12. Describe a characteristic of a capillary that helps gaseous exchange.
Capillaries have a large blood supply which assist gaseous exchange.
Marks: [1]
13. Suggest three outcomes of overarousal for a sports performer.
Outcome 1: Stress
Outcome 2: Narrowing of attentional focus
Outcome 3: Decrease in performance
Marks: [3]

14. Using this graph to support your answer, identify the impact of gender on participation in physical activity in Wiggleton-by-Sea.



Gender can affect participation, as there are fewer regular opportunities and less access for females to get involved in sport compared to males. So this restricts participation.

Lower levels of female coverage leads to fewer positive role models for females to be inspired to take part in physical activity. One of the main reasons for this is the lower levels of media coverage for female sport. There is also an issue with gender pay gap, where females will have less disposable income than their male equivalent, meaning they have less to spend on leisure pursuits. It could also be argued that females often have greater household responsibilities, such as child care, which limits time available to take part in physical activity. Lastly, some activities hold a male-dominated tradition, so females may feel they are stereotyped for taking part.

15. Suggest reasons why a sports performer may take anabolic steroids.
A performer might take anabolic steroids in order to increase muscle mass to improve
strength performances. They may also use anabolic steroids to reduce recovery time.
Lastly, anabolic steroids can help the performer to train at a high intensity for longer.
Marks: [3]
Marks: [3]
Marks: [3] 16. Suggest four reasons for anabolic steroids being prohibited in sport.
16. Suggest four reasons for anabolic steroids being prohibited in sport.
16. Suggest four reasons for anabolic steroids being prohibited in sport. Taking anabolic steroids will give a performer an unfair advantage over their competitors.
16. Suggest four reasons for anabolic steroids being prohibited in sport. Taking anabolic steroids will give a performer an unfair advantage over their competitors. There are also side effects to taking this type of drug that are detrimental to health. Taking
16. Suggest four reasons for anabolic steroids being prohibited in sport. Taking anabolic steroids will give a performer an unfair advantage over their competitors. There are also side effects to taking this type of drug that are detrimental to health. Taking anabolic steroids is seen as deviant behaviour, as it goes against social and moral norms.
16. Suggest four reasons for anabolic steroids being prohibited in sport. Taking anabolic steroids will give a performer an unfair advantage over their competitors. There are also side effects to taking this type of drug that are detrimental to health. Taking anabolic steroids is seen as deviant behaviour, as it goes against social and moral norms.
16. Suggest four reasons for anabolic steroids being prohibited in sport. Taking anabolic steroids will give a performer an unfair advantage over their competitors. There are also side effects to taking this type of drug that are detrimental to health. Taking anabolic steroids is seen as deviant behaviour, as it goes against social and moral norms.
16. Suggest four reasons for anabolic steroids being prohibited in sport. Taking anabolic steroids will give a performer an unfair advantage over their competitors. There are also side effects to taking this type of drug that are detrimental to health. Taking anabolic steroids is seen as deviant behaviour, as it goes against social and moral norms.
16. Suggest four reasons for anabolic steroids being prohibited in sport. Taking anabolic steroids will give a performer an unfair advantage over their competitors. There are also side effects to taking this type of drug that are detrimental to health. Taking anabolic steroids is seen as deviant behaviour, as it goes against social and moral norms.
16. Suggest four reasons for anabolic steroids being prohibited in sport. Taking anabolic steroids will give a performer an unfair advantage over their competitors. There are also side effects to taking this type of drug that are detrimental to health. Taking anabolic steroids is seen as deviant behaviour, as it goes against social and moral norms.
16. Suggest four reasons for anabolic steroids being prohibited in sport. Taking anabolic steroids will give a performer an unfair advantage over their competitors. There are also side effects to taking this type of drug that are detrimental to health. Taking anabolic steroids is seen as deviant behaviour, as it goes against social and moral norms.
16. Suggest four reasons for anabolic steroids being prohibited in sport. Taking anabolic steroids will give a performer an unfair advantage over their competitors. There are also side effects to taking this type of drug that are detrimental to health. Taking anabolic steroids is seen as deviant behaviour, as it goes against social and moral norms.

Marks: [4]

17. Describe the process of blood doping.
Blood doping involves the removal of blood from a performer a few weeks before
competition. The blood is then frozen. Shortly before competition, the blood is thawed and
reinjected back into the performer.
Marks: [3]
18. Justify why a combination of verbal and visual guidance is advantageous for novice performers.
A novice performer will benefit from a mixture of visual and verbal guidance, as they will
need to build a mental picture of how a skill should look from the use of visual guidance such as a demonstration. They will also need a coach to talk them through the most
important coaching points in order to perform the skill effectively.
no de Par
Marks: [1]
19. Describe and give a sporting example of mechanical guidance.
Description: The use of equipment to support the correct learning of a skill.
Sporting example: A sporting example is the use of a float when learning the
technique for a swimming stroke.

Marks: [2]

20. Define speed.

rate at which a performer t	
 	 _

Marks: [1]

21. Describe the relative importance of speed for the following performers.







Marathon runner



Weightlifte

Speed is needed by the weightlifter in order to generate power when lifting the weights upwards. Without this explosive movement, they will be unable to lift the weight. The squash player will require speed in order to move around the court to return the ball.

Otherwise, they will lose points easily. Marathon runners need speed in order to overtake an opponent or for a sprint finish at the end of a race. However, it could be argued that cardiovascular endurance is more important to the marathon runner to last the whole 26 miles. It could also be said that agility is more important to the squash player, as they have to change direction at speed to react to the opposing player's shot rebounding off the wall.

Marks: [6]

© 2024 The EverLearner

24. Explain why VO2max is an important measure of stamina.

VO2 max is an important measure of stamina, as it directly measures oxygen usage and is
a specific way of measuring stamina. Muscles need oxygen for aerobic respiration and this
is assisted by the heart contracting forcefully to provide this oxygen. VO2 max measures
how efficiently this process happens.

Marks: [4]

25. Describe the differences and similarities between skill and ability.
A skill is a learned ability which is developed through experience. In order to perform a
skill effectively, certain abilities are required. Abilities are innate traits that are genetic
and are predetermined. Abilities will have an influence on how well a performer learns and
refines a skill.
Marks: [6
riarks. [O
26. Justify why a tennis serve is not a fully closed skill.
A tennis serve is not a completely closed skill, as the server may have to adjust to react to
the opposing player moving positions as the serve is being taken. Someone calling out in
the crowd as the serve is initiated can also distract the performer. This will affect the
execution of the serve.
Marks: [2]
•

Stage one is input. This is through internal and external stimuli. Stage two is decision-making. This is where relevant information is used to initiate a response. Stage three is output, where there is a neural and muscular response. Stage four is feedback, which occurs through the feeling and outcome of completing the skill.

Marks: [4]

27. Describe each stage of the simple information processing model.

- Physical recreation- Play- Sport
- Leisure time can be defined as free time without commitments to work or household chores
- Physical recreation can be defined as voluntary activity completed in leisure time.
- Play can be defined as a non-serious activity done for enjoyment.
- Sport can be defined as competitive, rule-based physical activity.

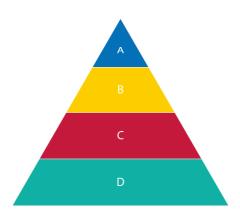
28. Define the following terms:

- Leisure time

Marks: [4]

29. Look closely at this image. Name section A **and** section B of the sports development pyramid.

Sports Development Pyramid



Section A is: Excellence	Section	Δ	is.	Excel	lence
--------------------------	---------	---	-----	-------	-------

Section B is: Performance

Marks: [2]

30. Look at this image and identify the highlighted muscle.



adriceps					
			 		 8

31. Explain the antagonistic muscle action.
Antagonistic muscle action involves muscles working in pairs to create movement. One
muscle is the agonist, which shortens and contracts. The other muscle is the antagonist,
which relaxes and lengthens.
Maulus IO
Marks: [2
32. Describe how the muscles in the arm work together to create flexion at the elbow.
Flexion at the elbow occurs by the biceps contracting and shortening as the agonist. The
triceps are the antagonist. They relax and lengthen.

33. Explain why a balanced diet is important to health.	
A balanced diet will mean eating a wide variety of foods. By consumin	g a balanced diet, an
individual will get the required nutrients to maintain health. Vitamins ar	nd minerals will assist
in keeping an individual healthy and, if the diet is balanced correctly, it	will ensure the
individual consumes the correct amount of calories for energy balance	·
	Na 1 541
	Marks: [4]
34. Define aerobic respiration.	
Glucose + Oxygen = Energy + Carbon Dioxide + Water	
	NA I Fell
	Marks: [1]

35. Justify the importance of a cool-down after a rugby match.	
A cool-down is important after a rugby match, as it assists the removal of lactic acid. This,	
in turn, reduces the chances of delayed onset of muscle soreness. A cool-down will also	
help the players gradually return to resting heart rate.	
	_
	_
Marks: [2	2]
36. Continuous training is often used by cross-country runners. Suggest two further methods of training a cross-country runner might benefit from.	
Method of Training 1: Fartlek training	
Method of Training 2: Circuit training	
	_
Marks: [2	2]

Advantage 1: An advantage of plyometric training is that it can improve a performer's power for explosive movements. Advantage 2: Plyometrics is also easy to set up as a training method, with little equipment required. Disadvantage 1: However, due to plyometrics being high intensity, it usually requires long periods of recovery. Disadvantage 2: Another disadvantage is that the jumping and bounding movements can put stress on joints and cause injury.

Marks: [4]

37. Describe two advantages and two disadvantages of plyometric

END OF PAPER