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Smth abt show fast muscle fibres

Wheres the new one give link

Biology Paper 3 2026 unofficial mark scheme

Highlighted answers: mark scheme answer

Guys theres already one made this is pointless..67

Give link

Question number	Question	Marks	Mark Scheme answer	comments
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<https://docs.google.com/document/d/1DXaeZNR0jXMSv10uWpkhc86k06Z0ZLEw38xWfNmISzl/edit?tab=t.0>

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New bio markscheme

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Question number	Question	Marks	Mark Scheme answer	comments
01.1	properties of water	2	Buffers temperature changes, maintains stable internal body temperature in organisms. Solvent - allows metabolic reactions to dissolve in water for transport Large Latent Heat of Vapourisation Cohesive properties/nature	
01.2	Define condensation reaction	1	A chemical bond is formed, Water molecule/s is/are released. Two molecules join together.	

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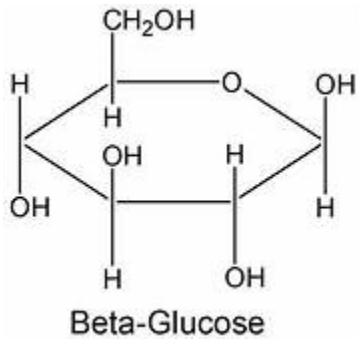
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01.3	Drawing beta glucose and difference between alpha and beta glucose	2	 Beta-Glucose In beta, the OH on carbon 1 is above the ring and in alpha it is below the ring	OH on top for beta and H at bottom.
02.1	The student successfully determined that the solid line was a fast muscle fibre. How did they jUse info from both figures to justify this conclusion?	3		High influx of calcium ions, more diffuse to myofibrils and contraction of many myofibrils -> contraction of many sarcomeres? More tropomyosin binds to myosin head so binding sites on actin exposed -> myosin head can bind as a result of higher calcium ion concentration. Also pull values from graphs maybe to support points. (not sure abt this so put it in comments) Fast muscle fibres have a higher concentration of sarcoplasmic reticulum and higher concentration of Ca^{2+} ions and so thats why it

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				was a higher conc of Ca^{2+}
02.2	Why fast muscle fibres need a higher concentration of calcium ions	2		
02.3	Calculate the difference in increase from 20ms to 40ms in slow vs fast twitch fibres	2		0.66?
03.1	Give 2 structural features that the membranes have in common. Do not refer to phospholipids			
03.2	Explain why leaf tissue had to be thin	2	- One single layer of cells - Allowing light to pass through	A few cells thin so light can pass through?
03.3	Calculate mean number of stomata per mm^2	2	198 Wrong answer 0.431 some ppl in got it	How many marks was this? 2 marks outrageous I got 2.32?
03.4	Suggest one step the student should've	2	Use a random number generator To generate coordinates to place	Could u have said ignored an anomalous results?

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	carried out to increase validity and explain. Do not refer to calculating a mean from a large field of view		quadrants to prevent bias and ensure a random sample.	Can you say count the stomata in the same manner? I said same temperature and time of day recorded? Bc if at different time of day, like warmer then stomata may be closed to prevent loss of water by transpiration/evaporation??
03.5	Suggest 2 ways the structure of the stomata in the xerophytic plant would be different to the one in the figure	1	Sunken stomata. Fewer stomata Hairs around stomata trap water vapour and reduce water potential gradient.	
04.1	Define genetic diversity		Number of different alleles in a population/gene pool	Not sure if its population or gene pool icl
04.2	Honeybee - tick which one is correct	1		
04.3	In honeybees the diploid number of chromosomes is 32. Determine the number of combinations of chromosomes possible in gametes of one honeybees as	2	$2^{16} = 65536$	

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	a result of independent segregation during meiosis.			
04.4	When produced from eggs fertilised by the sperm of a single drone, 50% of a female worker's DNA is identical to the DNA of other female workers. Use the figure to explain why.	2		
04.5	Describe the process of crossing over and explain how it increases genetic diversity	3		
05.1	Complete table 3 showing the classifications of the cow and pig	2	- Domain - Class - Chordata - mammalia	
05.2	State a different property of the molecules that each of the following			Chromatography: solubility? Gel electrophoresis: length/charge I put that too

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	techniques uses to separate them: Paper chromatography Electrophoresis			
05.3	Explain why endopeptidases were added			
05.4	There are only 20 different amino acids that occur in the mammalian proteins. Suggest and explain why there are more than 20 different spots on each of figure 5 and 6.			
05.5	From the figures, how can you tell that the cow and pig: Are related spe			

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