AQA Biology

Answers to examination-style questions

Answers			rs	Marks	Examiner's tips
1	(a)	intercostal muscle;		1	Allow reference to either external or internal muscle.
	(b)	(i)	muscle contracts pulling ribs upwards and outwards; volume of thorax increased; pressure in thorax decreased below atmospheric pressure;	3	First mark not awarded if contraction is linked to internal intercostal muscles. The rib cage does not expand!
		(ii)	maintain/greater diffusion/ concentration gradient; continuous diffusion/faster diffusion;	2	This question specifically refers to the rate of gaseous exchange so the second mark point is essential for a complete explanation.
2	(a)	diap con pul vol pre	straction of diaphragm muscles flattens phragm; straction of external intercostal muscles ls ribs upwards and outwards; ume of thorax increased; ssure in thorax decreased below cospheric pressure;	•	Ensure you refer to the muscles of the diaphragm and to the external intercostal muscles.
	(b)	(i)	tidal volume increases steeply, then the increase slows down after 10 to 15 km h ⁻¹ ;	1	Ensure you use the figures from the graph when describing where any change occurs.
		(ii)	breathing rate increases slowly then steeply after 10 to 15 km h ⁻¹ ;	1	For 1 mark maximum, reference should be made to the speed at which the change occurs in both (i) and (ii).
	(c)	20	× 2.75 = 55 dm³ min-³;	2	Correct answer = 2 marks. Correct method (i.e. tidal volume × breathing rate) = 1 mark. It is always important to show your working in case you make a mistake.
3	(a)	(i)	6 litres;	1	Volume taken in during one breath = 500 cm ³ × 12 (breaths per minute) = 6 dm ³ .
		(ii)	increase amount of air breathed in out per breath and increase in breathing rate;	1	Allow increase in depth of breathing for first idea.
	(p)	incr	scle of diaphragm contracts and flattens; reases volume in thorax/lungs; ses decrease in air pressure in lungs;	3	There is no need to refer to the intercostal muscles. The question only refers to the role of the diaphragm.
	(c)	allo	rease in percentage of water vapour; w increase in percentage of carbon side;	1 max	The volume of nitrogen is the same in inhaled and exhaled air. Its percentage decreases due to the greater volume of water in exhaled air.

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