

Answers to examination-style questions

Answers	Marks	Examiner's tips
1 (a) <i>intercostal</i> 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 <i>diffusion</i> /faster <i>diffusion</i> ;	2	This question specifically refers to the rate of gaseous exchange so the second mark point is essential for a complete explanation.
2 (a) contraction of diaphragm muscles flattens diaphragm; contraction of external intercostal muscles pulls ribs upwards and outwards; volume of thorax increased; pressure in thorax decreased below atmospheric pressure;	4	Ensure you refer to the <i>muscles</i> of the diaphragm and to the <i>external</i> 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) $20 \times 2.75 = 55 \text{ dm}^3 \text{ min}^{-1}$;	2	Correct answer = 2 marks. Correct method (i.e. tidal volume \times 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 = $500 \text{ cm}^3 \times 12$ (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.
(b) muscle of diaphragm contracts and flattens; increases volume in thorax/lungs; causes 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) increase in percentage of water vapour; allow increase in percentage of carbon dioxide;	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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JL Elias



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