

### 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;<br>volume of thorax increased;<br>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/<br>concentration gradient;<br>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;<br>contraction of external intercostal muscles pulls ribs upwards and outwards;<br>volume of thorax increased;<br>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 <sup>-1</sup> ;                                                                                                                              | 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 <sup>-1</sup> ;                                                                                                                                                 | 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) = $6 \text{ dm}^3$ .                                                             |
| (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;<br>increases volume in thorax/lungs;<br>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;<br>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.                             |

# Nelson Thornes Aqa Biology A2 Answers Chapter 4

**J Dewey**



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