

APOLLO

Gas exchange SL

Biology

First assessment 2025

5 questions | mark schemes

Mark-scheme answers

Biology SL | Paper 1A | May 2025 TZ1 | Q14 | 1 marks

14. C

Biology SL | Paper 1A | May 2025 TZ2 | Q13 | 1 marks

13. A

Biology SL | Paper 1A | May 2025 TZ3 | Q16 | 1 marks

16. A

4.	a	a. diaphragm flattens OR volume inside the thorax/chest increases; b. pressure inside the thorax/chest/lungs decreases (below atmospheric pressure); c. air enters lungs to equalise the pressure OR air enters lungs moving from high to low pressure;	<i>For c. do not accept just "air enters the lungs" without an explanation.</i>	2 max
4.	b	(external) intercostal (muscles);	<i>Do not accept "internal" intercostal muscles. If the answer refers to both "internal and external" intercostal muscles (without any clarification on the role of each), then it is considered a contradiction, award no marking point.</i>	1

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8825 – 6024M

Question		Answers	Notes	Total
4.	c	a. moistens the inside wall/surface of the <u>alveoli</u> (for gas exchange); b. reduces surface tension (inside alveoli); c. prevents (alveoli) walls/surfaces sticking together OR helps to prevent collapse of the lungs; d. enhances (alveolar) expansion of lungs OR allows the inflation of lungs after birth;	<i>For c. (second strand) accept alveoli.</i>	2 max

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8825 – 6024M

Question	Answers	Notes	Total
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Mark-scheme answers

Biology SL | Paper 1A | Specimen 2025 | Q17 | 1 marks

17. D