

APOLLO

Water

HL

Biology

First assessment 2025

6 questions | mark schemes

Mark-scheme answers

Biology HL | Paper 1A | May 2025 TZ1 | Q1 | 1 marks

1. B

Biology HL | Paper 1A | May 2025 TZ2 | Q1 | 1 marks

1. D

Biology HL | Paper 1A | May 2025 TZ3 | Q1 | 1 marks

1. C

2.	a	a. water has greater viscosity than air; b. thermal conductivity is higher in water than in air; c. specific heat capacity is higher in water than in air; d. water is denser/has more buoyancy than air;	<i>The physical property must be named. Comparative terms are expected, making reference to both eg: accept higher in water, but not high in water.</i> <i>Accept the converse of any of the marking points.</i>	2 max
2.	b	a. front limbs/flippers/legs are used for steering/to paddle/propel through the water OR tail forms a fluke with up-and-down movement / tail adapted to propel in water; b. (covered in) blubber/thick layer of fat to insulate from cold / increase buoyancy OR water-proof fur for insulation; c. can hold their breath (for many/45 minutes/long periods) to dive under water OR airways changed to allow periodic breathing between dives OR no connection between mouth and lungs / closing of nostrils to avoid water entering the lungs OR uses claws on their (fore/front) flippers/limbs/legs to make a breathing hole in ice; d. more/increased blood (volume)/red blood cells/haemoglobin/myoglobin concentration for more oxygen storage; e. streamlined (body) to minimize resistance/friction (when swimming);		2 max
2.	c	primary consumer;		1 max

Question	Answers	Notes	Total
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Mark-scheme answers

Biology HL | Paper 1A | Nov 2025 TZ3 | Q2 | 1 marks

2. C

Biology HL | Paper 1A | Specimen 2025 | Q1 | 1 marks

1. B