

APOLLO

Climate change

HL

Biology

First assessment 2025

5 questions | mark schemes

Mark-scheme answers

Biology HL | Paper 1A | May 2025 TZ1 | Q40 | 1 marks

40. A

Biology HL | Paper 1A | May 2025 TZ2 | Q40 | 1 marks

40. D

Biology HL | Paper 1A | May 2025 TZ3 | Q8 | 1 marks

8. D

2.	a	i	a. sweating/sweat secretion; b. vasodilation / skin arterioles widen / increased blood flow to skin; c. shunt vessels in the skin close;	<i>b. Do not accept 'blood vessels widen' unless the answer indicates that more blood will flow to the skin.</i>	1 max
2.	a	ii	a. negative (feedback) because temperature/body heat is reduced (followed the increase); b. negative (feedback) because body temperature returns (to normal/to the original level); c. negative (feedback) because sweating/response stops (after enough cooling); d. negative (feedback) because every change is followed by the opposite change;		1 max
2.	b		a. CO ₂ is released/is a greenhouse gas; b. long wave radiation/heat/infrared (emitted by the Earth) trapped/absorbed by CO ₂ ; c. (so) heat retained in atmosphere;	<i>Do not award a mark for 'Earth's temperature is increased' as this is in the question.</i> <i>b. Do not accept 'reflected back' instead of trapped or absorbed and do not accept absorption of any type of radiation from the sun.</i> <i>The word 'heat' can be used for both marking points b. and c. but in b. the idea is heat retained by CO₂ the whereas the idea in c. is heat retention in the atmosphere.</i>	2 max
2.	c		a. positive feedback because warming causes melting of polar ice; b. positive feedback because less ice means less sunlight is reflected (lower albedo); c. positive feedback because more heat is absorbed by the Earth's surface which becomes warmer;		1 max

Question	Answers	Notes	Total
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Mark-scheme answers

Biology HL | Paper 1A | Nov 2025 TZ1 | Q40 | 1 marks

40. A