

APOLLO

Cell respiration

HL

Biology

First assessment 2025

8 questions | mark schemes

Mark-scheme answers

Biology HL | Paper 1A | May 2025 TZ1 | Q6 | 1 marks

6. B

Biology HL | Paper 1A | May 2025 TZ1 | Q7 | 1 marks

7. C

6.	a	i	between glucose and fructose 1,6 – bisphosphate;		1
6.	a	ii	between triose phosphate and pyruvate;		1
6.	b		cytoplasm;		1
6.	c		a. NADH transfers electrons to pyruvate OR pyruvate acts as electron acceptor / pyruvate is reduced; b. (pyruvate) converted to lactate; c. NADH oxidized/converted to NAD OR NAD available to be reduced/converted to NADH again (in glycolysis);		2 max

Question			Answers	Notes	Total
7	a		<u>allopatric</u> ;		1
7	b		a. geographic isolation/geographic barrier/separation of populations (of the common ancestor) by the river; b. (isolated populations) subjected to different/ <u>selection</u> /environmental pressures; c. their allele frequencies changed/ genetic drift/genetic differences/different mutations/adaptations accumulated over time/passed on to offspring; d. until they could not interbreed anymore/reproductive isolation / populations became separate species; e. divergence due to differential selection;		3 max

Mark-scheme answers

Biology HL | Paper 1A | Nov 2025 TZ1 | Q6 | 1 marks

6. B

Biology HL | Paper 1A | Nov 2025 TZ1 | Q7 | 1 marks

7. C

Biology HL | Paper 1A | Nov 2025 TZ3 | Q5 | 1 marks

5. A

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

8. D

Biology HL | Paper 1A | Specimen 2025 | Q34 | 1 marks

34. B