

APOLLO

Populations and communities

SL

Biology

First assessment 2025

12 questions | mark schemes

Mark-scheme answers

Biology SL | Paper 1A | May 2025 TZ1 | Q24 | 1 marks

24. C

Biology SL | Paper 1A | May 2025 TZ1 | Q26 | 1 marks

26. B

Biology SL | Paper 1A | May 2025 TZ2 | Q25 | 1 marks

25. D

Biology SL | Paper 1A | May 2025 TZ2 | Q27 | 1 marks

27. C

Biology SL | Paper 1A | May 2025 TZ3 | Q26 | 1 marks

26. D

Biology SL | Paper 1A | May 2025 TZ3 | Q27 | 1 marks

27. B

Biology SL | Paper 1A | Nov 2025 TZ1 | Q26 | 1 marks

26. A

Biology SL | Paper 1A | Nov 2025 TZ3 | Q27 | 1 marks

27. B

Biology SL | Paper 1A | Specimen 2025 | Q28 | 1 marks

28. C

Biology SL | Paper 1A | Specimen 2025 | Q29 | 1 marks

29. A

3.	a	actively varied/manipulated (by the experimenter)/OWTTE	1
3.	b	25 °C	1
3.	c	a. temperature is a limiting factor (for enzymes) OR other limiting factors are influenced by temperature OR temperature is closer to the optimum temperature (of the enzymes); b. at higher temperature exchange of materials is more efficient; c. plants are reproducing/photosynthesising slowly at lower temperature / vice versa; d. dying faster than reproducing at lower temperature / vice versa;	2
3.	d	a. (larger culture dishes with) bigger starting duckweed populations; b. several replicates at each temperature; c. apply (appropriate) statistical analysis;	1

Question	Answers	Notes	Total
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5.	a		a. <u>interspecific</u> since it is between two species; b. <u>mutualistic</u> since both organisms benefit; c. (trophic relationship is) plant is a producer AND hummingbird is a primary consumer/herbivore;		2
5.	b		a. colour/patterns on flower parts; b. scent; c. providing nutrients/nectar;		1
5.	c		a. feed at a time when the predator is not active; b. remain very active/alert while feeding; c. mimic another organism; d. exaggerate their size;		1

Question	Answers	Notes	Total
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