

APOLLO

Protein synthesis

SL

Biology

First assessment 2025

5 questions | mark schemes

Mark-scheme answers

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

6. B

Biology SL | Paper 1A | May 2025 TZ2 | Q7 | 1 marks

7. D

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

6. D

Biology SL | Paper 1A | Nov 2025 TZ3 | Q6 | 1 marks

6. C

2.	a	a. essential amino acids cannot be synthesized (by human cells) OR essential amino acids are required to be obtained by diet / OWTTE; b. non-essential amino acids can be made (from other amino acids);		2
2.	b	X = (small subunit of) ribosome; Y = <u>m</u> RNA / <u>messenger</u> RNA;	<i>Do not accept RNA without messenger or m.</i>	2
2.	c	a. ribosome moves along the mRNA molecule/structure X moves along Y; b. amino acids added (to the polypeptide) one by one OR some polypeptides are still in formation / OWTTE; c. more amino acids added to the polypeptide by the ribosome on the right;		2 max

Question	Answers	Notes	Total
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