

APOLLO

DNA replication

HL

Biology

First assessment 2025

6 questions | mark schemes

Mark-scheme answers

Biology HL | Paper 1A | May 2025 TZ1 | Q9 | 1 marks

9. C

Biology HL | Paper 1A | May 2025 TZ2 | Q9 | 1 marks

9. B

3.	a		DNA / deoxyribonucleic acid / deoxyribo(nucleic acid) / deoxyribose (nucleic acid);		1
3.	b		replication because the base shown (on the new strand) is T/thymine / is not U/uracil;		1
3.	c		cytosine / C;		1
3.	d		5' (terminal);		1
3.	e	i	covalent/phosphodiester;		1
3	e	ii	a. (DNA) <u>polymerase</u> adds nucleotides (to the template strand) / makes a new strand (of nucleotides) OR <u>DNA polymerase III</u> (adds nucleotides) with complementary bases/ makes base pairs; b. DNA polymerase I removes the RNA primer replacing it with DNA; c. (DNA) ligase joins Okazaki/DNA fragments / seals gaps between fragments;		2 max

Question	Answers	Notes	Total
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Mark-scheme answers

Biology HL | Paper 1A | Nov 2025 TZ3 | Q10 | 1 marks

10. D

Biology HL | Paper 1A | Specimen 2025 | Q3 | 1 marks

3. A

Biology HL | Paper 1A | Specimen 2025 | Q9 | 1 marks

9. B