SMART EXAM RESOURCES TOPIC QUESTIONS: NUCLEIC ACID AND PROTEIN

SYNTHESIS SUB-TOPIC: PEPTIDE BOND FORMATION SET-1-QP-MS

1	Describe how a peptide bond is formed between two amino acids during polypeptide production.
	You may use the space below to help with your answer.

MARK SCHEME:

accept points from a diagram

- 1 loss of a water molecule / condensation reaction;
- 2 OH / O⁻, from, carboxyl / -COOH / COO⁻ (group) of one amino acid;
- 3 H / H⁺, from, amine / NH₂ / NH₃⁺(group) of other amino acid;
- 2/3 allow one mark for ref. to involvement of carboxyl and amine group

4 (peptide bond) links C-N;

[3]