37. Analytical techniques

37.1 Thin-layer chromatography

Paper 4

Marking Scheme

Q1.

(f)(i)	aluminum oxide / silica (on solid support) **AND** inert gas / named inert gas e.g. N_2	**1**
(f)(ii)	**S AND** R_f is the same as the unknown amino acid in both solvents	**1**

Q2.

(d)(i)	distance travelled by amino acid divided by distance travelled by solvent [1]	**1**
(d)(ii)	tyr is more soluble in the solvent used **or** lys is more attracted to the stationary phase used	**1**

Q3.

(a)(i)	A= leucine B= glutamic acid **both** [1]	**1**
(a)(ii)	greater **and** more soluble in the solvent / mobile phase **OR** greater **and** form more H-bonds with the solvent [1]	**1**