

- 7 Proteins are a major constituent of food.

Proteins are polymers.

- (a) What is a polymer?

**Polymers are large molecules made from many monomers joined together.**

[2]

- (b) Proteins can be converted into amino acids.

- (i) Name the type of chemical reaction which occurs when proteins are converted into amino acids.

**hydrolysis**

[1]

- (ii) Suggest a condition needed to convert proteins into amino acids.

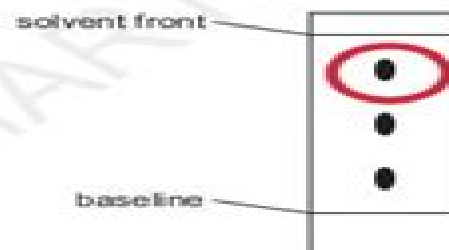
**acid conditions**

[1]

- (c) A colourless mixture of amino acids was separated by chromatography.

Amino acid X has an  $R_f$  value of 0.8.

The chromatogram of the mixture after treatment with a locating agent is shown.



- (i) How is an  $R_f$  value calculated?

$$R_f = \frac{\text{distance moved by substance}}{\text{distance moved by solvent front}}$$

[1]

- (ii) On the diagram put a ring around the spot caused by amino acid X.

[1]

# Igcse Past Papers Chemistry

**Geetha Nagaraj**



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