## Chromatography

**2** Chromatography is a versatile technique that may be used to separate and identify compounds.

**(a)** **(i)** Name a type of chromatography that is used to separate and identify dissolved substances.

.....[1]

**(ii)** State what quantitative value may be determined from the chromatogram to identify the substances present in the solution.

.....[1]

**(iii)** Sketch a chromatogram to show how the value in **(ii)** is determined.

[1]

**(b)** Gas-liquid chromatography is used to separate and identify gases and liquids.

**(i)** State what quantitative value is normally used to identify the components in this type of chromatography.

.....[1]

**(ii)** Sketch the chromatogram to show how the value in **(i)** is determined.

[1]

**(c)** **(i)** State the physical process on which the separation used in gas-liquid chromatography depends.

.....[1]

**(ii)** Describe briefly how the separation works.

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.....[4]

[Total: 10]