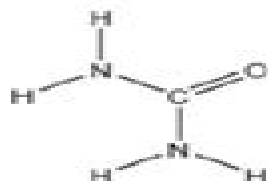


Periodicity HL Paper 2 Questions - markscheme

1a. [3 marks]

The structural formula of urea is shown.



Predict the electron domain and molecular geometries at the nitrogen and carbon atoms, applying the VSEPR theory.

	Electron domain geometry	Molecular geometry
Nitrogen		
Carbon		trigonal planar

Markscheme

	Electron geometry	Molecular geometry
Nitrogen	tetrahedral ✓	trigonal pyramidal ✓
Carbon	trigonal planar ✓	trigonal planar

Note: Urea's structure is more complex than that predicted from VSEPR theory.

[3 marks]

1b. [1 mark]

Suggest one reason why urea is a solid and ammonia a gas at room temperature.

Markscheme

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