

## Section A

For each question there are four possible answers **A**, **B**, **C** and **D**. Choose the **one** you consider to be correct.

Use of the Data Booklet may be appropriate for some questions.

- 1 Compound X is an organic compound that contains 30.6% carbon, 3.8% hydrogen, 20.4% oxygen and 45.2% chlorine by mass.

What is the empirical formula of X?

- A**  $C_2H_3OCl$       **B**  $C_2H_4OCl$       **C**  $C_3H_4OCl$       **D**  $C_4H_3O_2Cl_2$

- 2 A sample of propane,  $C_3H_8$ , with a mass of 9.61 g is completely combusted in an excess of oxygen under room conditions.

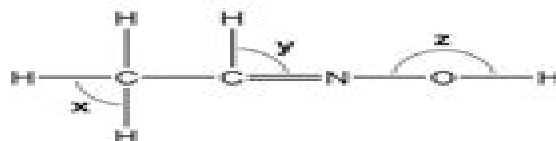
Which volume of carbon dioxide gas is produced?

- A**  $4.89 \text{ dm}^3$       **B**  $5.24 \text{ dm}^3$       **C**  $14.7 \text{ dm}^3$       **D**  $15.7 \text{ dm}^3$

- 3 Which atom has the same number of electrons as an ammonium ion?

- A** Mg      **B** Na      **C** Ne      **D** O

- 4 Ethanal reacts with hydroxylamine,  $NH_2OH$ , to form the molecule shown.



What is the order of **increasing** bond angle in this structure from smallest to largest?

- A**  $z, x, y$       **B**  $y, z, x$       **C**  $x, z, y$       **D**  $z, y, x$

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