- 5. Which of the following statements about pure water are correct?
 - (i) Pure water is a weak electrolyte that undergoes self-ionisation.
 - (ii) The equilibrium constant for the ionisation of pure water at 25 °C is 1.00 x 10⁻¹⁴.
 - (iii) Pure water ionises completely at 25 °C, hence [H⁺] = [OH-].
 - (iv) The ionisation of pure water produces twice as many hydrogen ions as hydroxide ions.
 - (a) i and ii only
 - (b) ii and iii only
 - (c) iii and iv only
 - (d) i, ii, iii and iv