AQA AS/A-level Year 1 Chemistry exam practice answers

**7 Redox reactions**

**1 (a)** NO2 +4 [1]; NO3− +5 [1]; HNO2 +3 [1]

**(b)** The nitrogen in NO2 [1]

**2** Fe(s) + Cu2+(aq) → Fe2+(aq) + Cu(s) [1] (state symbols not required)

**3 (a)**  4NH3 + 5O2 → 4NO + 6H2O [1] all formulae correct; [1] for balancing

**(b)** Nitrogen in ammonia has been oxidised (−3 to +2) [1]; oxygen has been reduced (0 to −2) [1]

**(c)** Ammonia [1]

**4** C [1]