

Question 26**(13 marks)**

A limited amount of sodium metal was added to a beaker of distilled water containing a few drops of phenolphthalein.

- (a) (i) List **three** changes that would be observed. (3 marks)

One: _____

Two: _____

Three: _____

- (ii) Write the ionic equation for any reaction involving both sodium and water. Include **all** state symbols. (3 marks)

Excess propene gas was bubbled through an aqueous bromine solution.

- (b) (i) Identify, by name or formula, any new substance/s produced. (1 mark)

- (ii) Write descriptions of the substances **before** and **after** mixing. (2 marks)

Before _____

After _____

A thick strip of lead metal was immersed into a small beaker containing a solution of 1.00 mol L^{-1} iron(III) nitrate.

- (c) (i) Identify, by name or formula, any new substance/s produced. (1 mark)

--

- (ii) List **all** observations that would be made for any reaction, describing clearly the substances before and on completion of any reaction. (3 marks)
