

**GCSE Chemistry A (Gateway Science)**

**J248/02 C4-C6 and C7 Foundation (Foundation Tier)**

**Question Set 16**

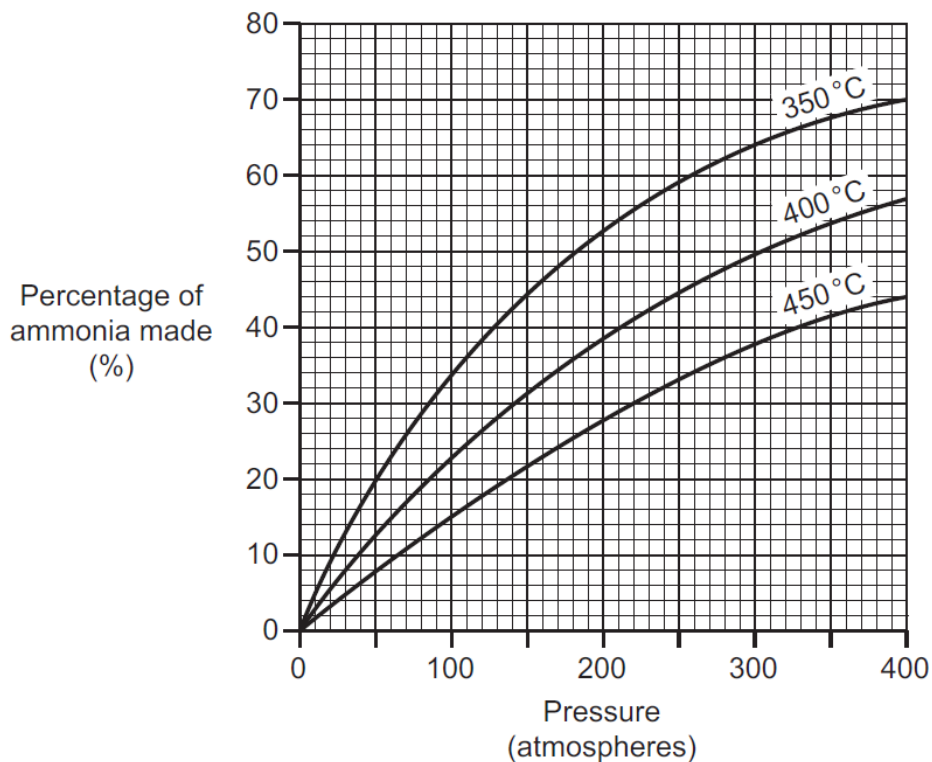
1 Ammonia is made from nitrogen and hydrogen.

(a) The reaction between nitrogen and hydrogen is **reversible**.

Explain what this means.

[1]

(b) The graph shows the percentage of ammonia made at different temperatures and pressures.



(i) Describe how the percentage of ammonia changes as the **pressure** increases at 450 °C.

[1]

(ii) Write down a temperature and pressure which make 20% of ammonia.

Temperature = ..... °C    Pressure = ..... atmospheres

[1]

**Total Marks for Question Set 16: 3**

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