

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.

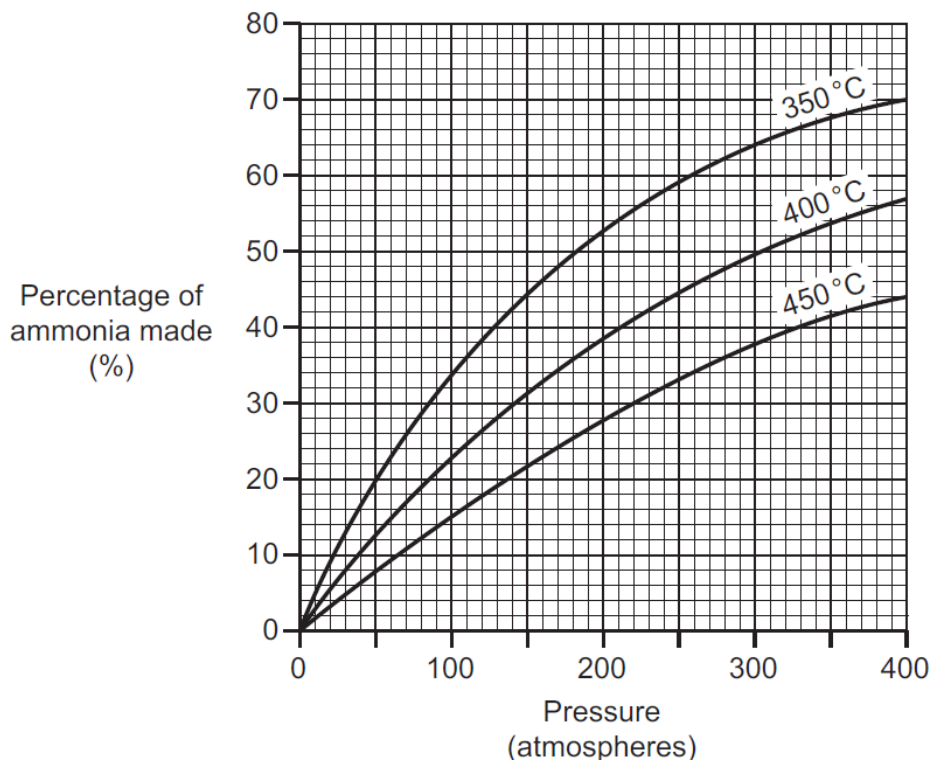
(a) The reaction between nitrogen and hydrogen is **reversible**.

Explain what this means.

The reaction can occur in forward and backward direction simultaneously.

[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.

Percentage of ammonia increases

[1]

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

Temperature =350..... °C Pressure =50..... atmospheres

[1]

Total Marks for Question Set 16: 3

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