

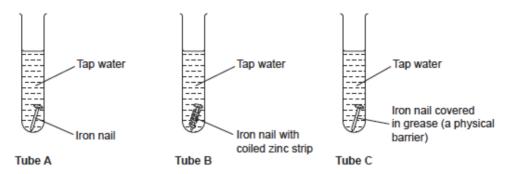
## GCSE Chemistry B (Twenty First Century Science) J258/01 Breadth in Chemistry (Foundation Tier)

## **Question Set 31**

**Multiple Choice Questions** 

Iron is an important metal in the construction industry. The main disadvantage of iron is that it rusts.

Mia investigates the rusting of iron, using iron nails. She has three test tubes, Tube A, Tube B and Tube C.



(a) (i) The iron nail in **Tube B** rusts much more slowly than the iron nail in **Tube A**.

Explain why.

[2]

(b) Mia collects the rust. She dissolves the rust in hydrochloric acid and adds some sodium hydroxide solution.

She sees a brown precipitate.

What is the name of this brown precipitate?

 Tick (✓) one box.

 Iron(III) chloride

 Iron(II) hydroxide

 Iron(III) hydroxide

 Sodium chloride

[1]

[2]

(c) Mia now reacts an iron nail with hydrochloric acid.

Write a **word** equation for this reaction.

Total Marks for Question Set 31: 7



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