

## GCSE Chemistry A (Gateway Science) J248/04 Chemistry A C4-C6 and C7 (Higher Tier)

**Question Set 28** 

(a) The word equation for rusting is

Balance the symbol equation for the formation of rust.

- (b) A 1.0 kg iron bar is left outside in the rain.
  - · All of the iron turns to rust.
  - The rust forms at a rate of 60 g per day.

Calculate how long it will take for the iron bar to turn completely to rust.

Give your answer to the nearest day.

$$n = \frac{m}{m} = \frac{1000}{56} = 17.9 \text{ mol}$$

[2]

**Total Marks for Question Set 28: 8**