



Answers to 5116/ 5118 2014 O level Combined Science (Chemistry) Paper 3

- A1**
- (a) Galvanization (i.e. coating iron with zinc) will prevent iron from rusting.
 - (b) Fermentation requires a temperature between 25°C and 40°C, enzymes (eg. yeast) and anaerobic condition (i.e. absence of oxygen).
 - (c) Calcium hydroxide is used to reduce acidity of soil.
 - (d) Bitumen fraction of crude oil is used for road surfaces.
- A2**
- (a) Two other solids added to a blast furnace are coke and limestone.
 - (b) Iron ore (haematite) contains iron (III) oxide. Near the bottom of the blast furnace, iron (III) oxide reacts with coke (carbon) to form carbon monoxide.
$$\text{Fe}_2\text{O}_3 + 3\text{C} \rightarrow 2\text{Fe} + 3\text{CO}$$

Carbon dioxide also reacts with coke to produce more carbon monoxide.
$$\text{CO}_{2(g)} + \text{C}_{(s)} \rightarrow 2\text{CO}_{(g)}$$
 - (c) If metals are not recycled they can harm future generations:
 - (i) metal is a finite resource → unavailable for future generations
 - (ii) metal disposal → increase landfills → increase ground water pollution
 - (d) Plastics are harmful to the environment because
 - (i) incineration produces harmful gases
 - (ii) non-biodegradable → blocks drains/ water flow and harms marine life
- A3**
- (a) An element, Ea with 4 electron shells and 3 outermost electrons is found in period 4 and group 3 of the periodic table.
 - (b) Charge of the element is Ea^{3+}
 - (c) Chemical formula of oxide is Ea_2O_3 .

O Level Science 5116 2014

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