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Question 7

(a) In the extraction of zinc from zinc blende:

[2]

- (i) Give an equation to show how zinc oxide is converted to zinc.
- (ii) How is impure zinc finally electro-refined?
- (b) Explain why:

[3]

- (i) Transition elements form coloured compounds.
- (ii) Interhalogen compounds are more reactive than their constituent elements.
- (iii) Cu⁺ is diamagnetic but Cu²⁺ is paramagnetic. (Z = 29)

SECTION C

Answer any two questions.

Question 8

(iiii)

- (a) How can the following conversions be brought about:
 - (i) Nitro benzene to benzene diazoniumchloride.

[3]

(ii) Propanoic acid to ethylamine.

[2]

(b) Identify the compounds A, B, C, D, E and F:

Benzoic acid to benzaldehyde.

[3]

$$HC = CH \xrightarrow{\text{dil.H}_2SO_4} [A] \xrightarrow{[O]} [B] \xrightarrow{\text{SOCl}_2} [C] \xrightarrow{\text{CH}_3\text{COONa}} [D]$$

$$\downarrow NH_2OH \qquad \qquad \downarrow C_6H_5OH$$

$$[E] \qquad \qquad [F]$$

Ouestion 9

(a) Write balanced chemical equations for the following reactions and name the reactions:

[3]

- Acetamide is heated with bromine and sodium hydroxide solution.
- ii) Benzaldehyde is treated with 50% sodium hydroxide solution.
- (b) Give one chemical test to distinguish between the following pairs of compounds:

[3]

- (i) Acetone and phenol.
- (ii) Formic acid and Acetic acid.

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