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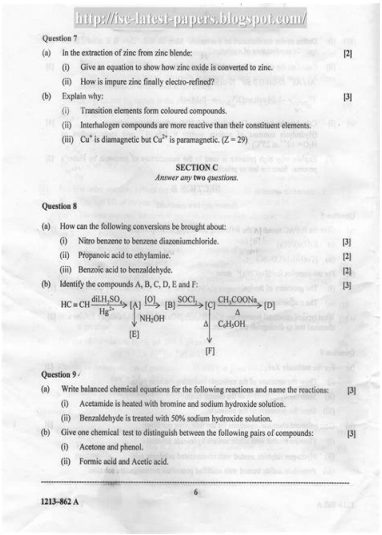

http://isc-latest-papers.blogspot.com/

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 Cu^{2+} is paramagnetic. (Z = 29)

SECTION C
Answer any **two** *questions.*

Question 8

(a) How can the following conversions be brought about:
(i) Nitro benzene to benzene diazoniumchloride. [3]
(ii) Propanoic acid to ethylamine. [2]
(iii) Benzoic acid to benzaldehyde. [2]

(b) Identify the compounds A, B, C, D, E and F: [3]

$$HC \equiv CH \xrightarrow[Hg^{2+}]{dil.H_2SO_4} [A] \xrightarrow{[O]} [B] \xrightarrow{SOCl_2} [C] \xrightarrow[\Delta]{CH_3COONa} [D]$$

[A] $\xrightarrow{NH_2OH}$ [E]

[C] $\xrightarrow[\Delta]{C_2H_5OH}$ [F]

Question 9

(a) Write balanced chemical equations for the following reactions and name the reactions: [3]
(i) 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.

6

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