

ICS Boards 2023

Chemistry

SECTION – A

Question 1

(A) Fill in the blanks by choosing the appropriate word(s) from those given in the brackets: [stable, low, aldehyde, unstable, 6, 4, ethane, Clemmensen's, 2, 3, carboxylic acid, high, propane, Rosenmund's]

(i) The primary alcohols are easily oxidized first into _____ and then into _____.

Answer: The primary alcohols are easily oxidized first into **aldehyde** and then into **carboxylic acid**.

(ii) The intermediate activated complex in a chemical reaction is highly _____ due to _____ energy.

Answer: The intermediate activated complex in a chemical reaction is highly **unstable** due to **high** energy.

(iii) The coordination number and oxidation state of the complex $K_4[Fe(CN)_6]$ are _____ and _____ respectively.

Answer: The coordination number and oxidation state of the complex $K_4[Fe(CN)_6]$ are **6** and **2** respectively.

(iv) Propanone on reaction with zinc-amalgam in presence of conc. HCl gives _____ and the reaction is known as _____ reduction.

Answer: Propanone on reaction with zinc amalgam in presence of conc. HCl gives **propane** and the reaction is known as **Clemmensen's** reduction.

(B) Select and write the correct alternative from the choices given below:

(i) The reaction of a primary amine with chloroform and ethanolic KOH is called:

- (a) Carbylamine reaction
- (b) Kolbe's reaction
- (c) Reimer-Tiemann reaction
- (d) Wurtz-Fitting reaction

Answer (a)

Aliphatic or aromatic primary amines on heating with chloroform give foul smelling products called isocyanides or carbylamines and the reaction is known as carbylamine reaction.



Question Paper March Chemistry Edexcel 23

Ensheng Dong



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