

CHEMISTRY PAPER 1 (THEORY)

Maximum Marks: 70

Time Allowed: Three hours

*Candidates are allowed additional 15 minutes for only reading the paper.
They must NOT start writing during this time.*

This paper is divided into four sections – A, B, C and D.

Answer all questions.

Section A consists of one question having sub-parts of one mark each.

Section B consists of ten questions of two marks each.

Section C consists of seven questions of three marks each, and

Section D consists of three questions of five marks each.

Internal choices have been provided in one question each in Section B,

Section C and Section D.

All working, including rough work, should be done on the same sheet as, and adjacent to the rest of the answer.

The intended marks for questions or parts of questions are given in brackets [].

Balanced equations must be given wherever possible and diagrams where they are helpful.

When solving numerical problems, all essential working must be shown.

In working out problems, use the following data:

Gas constant $R = 1.987 \text{ cal deg}^{-1} \text{ mol}^{-1} = 8.314 \text{ JK}^{-1} \text{ mol}^{-1}$

$= 0.0821 \text{ dm}^3 \text{ atm K}^{-1} \text{ mol}^{-1}$

$1 \text{ l atm} = 1 \text{ dm}^3 \text{ atm} = 101.3 \text{ J}$ $1 \text{ Faraday} = 96500 \text{ coulombs}$.

Avogadro's number $= 6.023 \times 10^{23}$.

SECTION A – 14 MARKS

Question 1

- (A) Fill in the blanks by choosing the appropriate word(s) from those given in the [4×1]
brackets:

[stable, low, aldehyde, unstable, 6, 4, ethane, Clemmensen's, 2, 3, carboxylic acid, high, propane, Rosenmund's]

- (i) The primary alcohols are easily oxidised first into _____ and then into _____.
- (ii) The intermediate activated complex in a chemical reaction is highly _____ due to _____ energy.
- (iii) The coordination number and oxidation state of the complex $\text{K}_4[\text{Fe}(\text{CN})_6]$ are _____ and _____ respectively.
- (iv) Propanone on reaction with zinc-amalgam in presence of conc. HCl gives _____ and the reaction is known as _____ reduction.

This Paper consists of 8 printed pages.

Vbcat Chemistry Question Paper

Eric John Holmyard



Vbcat Chemistry Question Paper:

The Educational reporter (and science teachers' review). ,1869 **Chemistry 8080/9080** , Chemistry Questions Theoretical and Practical. Selected from the Papers of the Civil Service Commission Arthur Percival Newton,1912
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organic chemistry into small segments Next 3 paper intermix two to three papers of the first eight paper and the last paper covers whole organic chemistry By doing this we want to revise your organic chemistry in 3 tiers so that not a single doubt should left out Organic chemistry is very easy and conceptual subject and need proper understanding of the basics and strategy to solve the questions in correct manner This Test paper will prepare your right mindset for learning Organic Chemistry This mindset is essentially the one that focuses you on a small number of straight forward fundamental concepts and helps you to apply them in different ways to solve the variety of problems you face in organic chemistry In this book balance has to be achieved between the number of questions and the quality of the questions especially because it is relatively easy to frame a very large number of multiple choice questions and theory of the subject The questions in this book have been selected keeping three things in mind First the questions are such that they really test the understanding of the subject Second the questions cover all concepts Third the number of questions has been kept large enough to offer meaningful practice to the students

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