

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.

Diploma Polytechnic 1st Year Chemistry Question Paper

G Orfield



Diploma Polytechnic 1st Year Chemistry Question Paper:

A - N Werner Schuder, 2021-11-22 Keine ausführliche Beschreibung für A N verfügbar Transactions and Journal, 1967
Vols 2 include the 1st annual report of the council to members of the institute for 1931-32 **Competition Science Vision**
, 1999-08 Competition Science Vision monthly magazine is published by Pratiyogita Darpan Group in India and is one of the best Science monthly magazines available for medical entrance examination students in India Well qualified professionals of Physics Chemistry Zoology and Botany make contributions to this magazine and craft it with focus on providing complete and to the point study material for aspiring candidates The magazine covers General Knowledge Science and Technology news Interviews of toppers of examinations study material of Physics Chemistry Zoology and Botany with model papers reasoning test questions facts quiz contest general awareness and mental ability test in every monthly issue *Plastics in Building Structures* D. S. Mahon, J. C. Barford, W. Dawson, 2013-09-11 *Plastics in Building Structures* covers the proceedings of a conference held in London on June 14-16 1965 This conference focuses on the applications of plastics materials in structures This book emerged from 39 papers presented at the conference The introductory papers describe the properties of plastics in relation to building structures and the economic aspects fire regulations and flammability of these materials Considerable papers are devoted to various areas of application of plastics including adhesives polymer cements cored chipboard units and glued timber These topics are followed by discussions on the characterization design and structural and physical properties of plastics The final chapters review the commercial development and applications of plastic materials This book will prove useful to engineers designer manufacturers and researchers in the allied fields **Report of the Commissioner of Education [with Accompanying Papers]**. United States. Bureau of Education, 1872 Justice of the Peace and Local Government Review, 1868 *Competition Science Vision*, 1998-12 Competition Science Vision monthly magazine is published by Pratiyogita Darpan Group in India and is one of the best Science monthly magazines available for medical entrance examination students in India Well qualified professionals of Physics Chemistry Zoology and Botany make contributions to this magazine and craft it with focus on providing complete and to the point study material for aspiring candidates The magazine covers General Knowledge Science and Technology news Interviews of toppers of examinations study material of Physics Chemistry Zoology and Botany with model papers reasoning test questions facts quiz contest general awareness and mental ability test in every monthly issue Chemical News and Journal of Industrial Science, 1867
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 Water-supply and Irrigation Papers of the United States Geological Survey Geological Survey (U.S.),1907 Register of
Educational Research in the United Kingdom ,1978 *The Assam Gazette* Assam (India),1964-10

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