

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 = 6.023×10^{23} .

SECTION A – 14 MARKS

Question 1

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

[decreases, CN^- ion, activation energy, catalyst, two, Fe^{2+} ion, carbon, lattice energy, enzyme, five, double, halogen, triple, increases]

- (i) In the Haber process, iron changes the _____ of reaction while molybdenum increases the efficiency of the _____.
- (ii) The number of ions that will be produced when potassium ferrocyanide, $\text{K}_4[\text{Fe}(\text{CN})_6]$, dissolves in water is _____. This shows that _____ is the ligand in the coordination compound.

May June 2013 Chemistry 97paper 4

Tobias Bleicker



May June 2013 Chemistry 97paper 4:

This book delves into May June 2013 Chemistry 97paper 4. May June 2013 Chemistry 97paper 4 is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into May June 2013 Chemistry 97paper 4, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to May June 2013 Chemistry 97paper 4
 - Chapter 2: Essential Elements of May June 2013 Chemistry 97paper 4
 - Chapter 3: May June 2013 Chemistry 97paper 4 in Everyday Life
 - Chapter 4: May June 2013 Chemistry 97paper 4 in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of May June 2013 Chemistry 97paper 4. This chapter will explore what May June 2013 Chemistry 97paper 4 is, why May June 2013 Chemistry 97paper 4 is vital, and how to effectively learn about May June 2013 Chemistry 97paper 4.
 3. In chapter 2, this book will delve into the foundational concepts of May June 2013 Chemistry 97paper 4. The second chapter will elucidate the essential principles that need to be understood to grasp May June 2013 Chemistry 97paper 4 in its entirety.
 4. In chapter 3, this book will examine the practical applications of May June 2013 Chemistry 97paper 4 in daily life. The third chapter will showcase real-world examples of how May June 2013 Chemistry 97paper 4 can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of May June 2013 Chemistry 97paper 4 in specific contexts. This chapter will explore how May June 2013 Chemistry 97paper 4 is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about May June 2013 Chemistry 97paper 4. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of May June 2013 Chemistry 97paper 4.

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