

F332 advance notice (June 2013) *"predicted Q's"*

- How does photolysis play a part in the destruction of N_2O in the stratosphere?
- Use a series of equations to show how NO acts in the catalytic destruction of ozone?
- What is meant by the term *photolysis* ?
- Convert 100 parts per billion to a percentage, for the level of NO_x in urban areas
- Why is the $\text{N}_2\text{O}_{(\text{liquid})}$ into $\text{N}_2\text{O}_{(\text{gas})}$ **not** a true dynamic equilibrium ?
- Describe how photochemical smog can be harmful to:
(a) the environment ? (b) Humans ?
- The article mentions a reaction with HO radicals, what is a radical?
Give examples of other radicals found in the stratosphere?
- Suggest why the concentration of N_2O in the atmosphere has increased since 1820 ?
- What is used as a catalyst in the upper atmosphere in photolytic fission leading to radicals being formed ?
- Explain why N_2O is considered a greenhouse gas?
- Give the symbol equation for the reaction taking place in a catalytic converter to turn nitrogen oxides (NO_x) to oxygen and nitrogen?
Is this oxidation or reduction?
- 'Nitrous oxide is released into the atmosphere from the soil aquatic systems'. Discuss?
- Why are the three bonds in nitrogen (N_2) significant ?
- Explain using examples the mechanism of a radical chain reaction?
- What are the dangers of photochemical smog?
- Explain why lightning contributes to the formation of NO_x give one of the origins of NO_x ?
- Draw a dot and cross bonding diagram for N_2O
- Loss of N_2O by wet deposition contributes to which atmospheric problem?
- Give the oxidation state of **N** in each of the following:
a) N_2O b) HNO_3 c) NO d) $(\text{NH}_4)_2\text{SO}_4$
- Use a diagram to show the bonding in Ozone (O_3)
Describe why the bonds aren't true double bonds?
- Write balanced symbol equations to represent the reactions in the use of a three-way catalyst ?
- Describe how HNO_3 is removed from that atmosphere by wet deposition ?

F332 June 13 Mark Scheme

J Elliott



F332 June 13 Mark Scheme:

This book delves into F332 June 13 Mark Scheme. F332 June 13 Mark Scheme is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into F332 June 13 Mark Scheme, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to F332 June 13 Mark Scheme
 - Chapter 2: Essential Elements of F332 June 13 Mark Scheme
 - Chapter 3: F332 June 13 Mark Scheme in Everyday Life
 - Chapter 4: F332 June 13 Mark Scheme in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, this book will provide an overview of F332 June 13 Mark Scheme. The first chapter will explore what F332 June 13 Mark Scheme is, why F332 June 13 Mark Scheme is vital, and how to effectively learn about F332 June 13 Mark Scheme.
3. In chapter 2, this book will delve into the foundational concepts of F332 June 13 Mark Scheme. This chapter will elucidate the essential principles that must be understood to grasp F332 June 13 Mark Scheme in its entirety.
4. In chapter 3, the author will examine the practical applications of F332 June 13 Mark Scheme in daily life. This chapter will showcase real-world examples of how F332 June 13 Mark Scheme can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of F332 June 13 Mark Scheme in specific contexts. The fourth chapter will explore how F332 June 13 Mark Scheme is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about F332 June 13 Mark Scheme. 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. It is highly recommended for anyone seeking to gain a comprehensive understanding of F332 June 13 Mark Scheme.

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