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EXAMINATIONS COUNCIL OF ZAMBIA
JUNIOR SECONDARY SCHOOL LEAVING EXAMINATION (GRADE 9) – 2022

Mathematics 401/1
Paper 1

(INTERNAL CANDIDATES)

Time: 2 hours

Marks: 50

No Reading Time

Instructions to candidates

- 1 Pull out the inserted **Answer Sheet** from the question paper.
- 2 Write your **examination number** and **school/centre name** and **code** on the **Answer Sheet**.
- 3 There are **two (2)** sections in this question paper, **Section A** and **B**.
- 4 Answer **all** the questions in both sections on the **Answer Sheet** provided.
- 5 In **Section A**, for each question, **four (4)** suggested answers are given, **A, B, C** and **D**. Choose the correct answer and show it on the **Answer Sheet** by marking it with a cross (**X**).

For example, if the answer is **D**

A	B	C	☒ D
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- 6 No paper for rough work is to be provided. Any working should be done on the question paper in the spaces provided.
- 7 Only the **Answer Sheet** should be handed in.

Information for candidates

Cell phones and calculators are **not allowed** in the examination room.

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Table of Contents Mathematics June Examanation 2014

1. Understanding the eBook Mathematics June Examanation 2014
 - The Rise of Digital Reading Mathematics June Examanation 2014
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics June Examanation 2014
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mathematics June Examanation 2014
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics June Examanation 2014

- Personalized Recommendations
- Mathematics June Examanation 2014 User Reviews and Ratings
- Mathematics June Examanation 2014 and Bestseller Lists
- 5. Accessing Mathematics June Examanation 2014 Free and Paid eBooks
 - Mathematics June Examanation 2014 Public Domain eBooks
 - Mathematics June Examanation 2014 eBook Subscription Services
 - Mathematics June Examanation 2014 Budget-Friendly Options
- 6. Navigating Mathematics June Examanation 2014 eBook Formats
 - ePub, PDF, MOBI, and More
 - Mathematics June Examanation 2014 Compatibility with Devices
 - Mathematics June Examanation 2014 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathematics June Examanation 2014
 - Highlighting and Note-Taking Mathematics June Examanation 2014
 - Interactive Elements Mathematics June Examanation 2014
- 8. Staying Engaged with Mathematics June Examanation 2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematics June Examanation 2014
- 9. Balancing eBooks and Physical Books Mathematics June Examanation 2014
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematics June Examanation 2014
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mathematics June Examanation 2014
 - Setting Reading Goals Mathematics June Examanation 2014
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mathematics June Examanation 2014

- Fact-Checking eBook Content of Mathematics June Examanation 2014
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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web a reaction and its experimental rate law are represented below $2 \text{ICl} + \text{H}_2 \text{g} \rightarrow 2 \text{HCl} + \text{I}_2 \text{g}$ rate $k [\text{ICl}]^2 [\text{H}_2]$ a chemist proposes a mechanism for the reaction that is consistent with the rate law the mechanism has two elementary steps and the first step is slow compared to the second

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 $\text{O}_3 \rightarrow \text{O}_2 + \text{O}$ fast
 $\text{O}_3 + \text{O} \rightarrow 2 \text{O}_2$ slow
a write the overall balanced chemical equation
 $2 \text{O}_3 \rightarrow 3 \text{O}_2$
b identify any intermediates within the mechanism
c what is the order with respect

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b

identify any intermediates within the mechanism o c

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web reaction rates google classroom mg s 2 hcl a q mgcl a 2 a q h a 2 g the reaction between mg s and hcl a q is represented by the equation above in a kinetics experiment a 0 080 g sample of mg s ribbon is added to an erlenmeyer flask containing 50 ml of 3 0 m hcl a q at 25 c

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