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KWAZULU-NATAL PROVINCE
EDUCATION
REPUBLIC OF SOUTH AFRICA

**NATIONAL
SENIOR CERTIFICATE**

GRADE 12

PHYSICAL SCIENCES P2 (CHEMISTRY)

COMMON TEST

JUNE 2024

MARKING GUIDELINES

MARKS: 100

These marking guidelines consist of 10 pages.

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Resources in Education ,1999-04 **Girls and Women in STEM** Janice Koch,Beverly Irby,Barbara Polnick,2014-01-01

Encouraging the participation of girls and women in science technology engineering and mathematics STEM remains as vital today as it was in the 1970s hence the sub title A Never Ending Story This volume is about ongoing advocacy on behalf of the future workforce in fields that lie on the cutting edge of society s future Acknowledging that deeply embedded beliefs about social and academic entitlement take generations to overcome the editors of this volume forge forward in the knowledge that these chapters will resonate with readers and that those in positions of access will learn more about how to provide opportunities for girls and women that propel them into STEM fields This volume will give the reader insight into what works and what does not work for providing the message to girls and women that indeed STEM fields are for them in this second decade of the 21st century Contributions to this volume will connect to readers at all levels of STEM education and workforce participation Courses that address teaching and learning in STEM fields as well as courses in women s studies and the sociology of education will be enhanced by accessing this volume Further students and scholars in STEM fields will identify with the success stories related in some of these chapters and find inspiration in the ways their own journeys are reflected by this volume *School Science and Mathematics* ,1922 **Western Teacher** ,1896 **Annual Report** Mpumalanga (South Africa). Department of Education,2014 Some Developments in Research in Science and Mathematics in Sub-Saharan Africa Lorna Holtman,2008 Much attention in late developing countries is given to providing access to studies which allow school leavers to enter science and technology related careers These programmes are driven by the belief that graduates will then substantially contribute to the developmental needs of their countries But is providing access to institutions enough Students in developing countries often come from school environments lacking in resources human physical and financial This book in a number of chapters reviews research related to the crucial dimension of epistemological access to the disciplines of import which students need as much as institutional access in order to improve their chances of success A significant feature of this collection s research studies is that their empirical bases are highly localised covering areas such as research methods access curriculum instruction and assessment and the relevance of science and mathematics education in Zimbabwe Uganda Swaziland South Africa Namibia Malawi Ghana and Lesotho This volume provides invaluable insights and will be of relevance to researchers policy makers and lecturers interested in these research outcomes in Sub Saharan Africa It is the outcome of a doctoral research capacity development project the Graduate Studies in Science Mathematics and Technology Education GRASSMATE Academic Instruction for Students With Moderate and Severe Intellectual Disabilities in Inclusive Classrooms June Downing,2010-03-09 While most resources for inclusive education focus on teaching students with mild to moderate disabilities teachers of students with more severe disabilities need specific methods to provide the individualized and systematic instruction necessary to support students in inclusive environments

This unique book meets that need with approaches information and ideas for teachers of students with moderate to severe disabilities in general education classrooms June E Downing draws from a strong research base to provide practical instructional strategies plus suggestions based on personal experience Featuring tables and figures chapter summaries photographs multiple examples and strategies that address the how to of instruction this resource helps general and special education teachers Adapt their curriculum to meet both individual student needs and state standards for core curriculum Work collaboratively with other teachers Develop assessments that accurately determine student needs Keep track of student progress through data collection Essential for today s inclusive classrooms this guide covers everything teachers need to know to provide individualized instruction and assessment for their students with significant intellectual disabilities

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Table of Contents Grade 12physical Science Question Paper June

1. Understanding the eBook Grade 12physical Science Question Paper June
 - The Rise of Digital Reading Grade 12physical Science Question Paper June
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 12physical Science Question Paper June
 - 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 Grade 12physical Science Question Paper June
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 12physical Science Question Paper June
 - Personalized Recommendations
 - Grade 12physical Science Question Paper June User Reviews and Ratings
 - Grade 12physical Science Question Paper June and Bestseller Lists
5. Accessing Grade 12physical Science Question Paper June Free and Paid eBooks
 - Grade 12physical Science Question Paper June Public Domain eBooks
 - Grade 12physical Science Question Paper June eBook Subscription Services
 - Grade 12physical Science Question Paper June Budget-Friendly Options

6. Navigating Grade 12physical Science Question Paper June eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade 12physical Science Question Paper June Compatibility with Devices
 - Grade 12physical Science Question Paper June Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade 12physical Science Question Paper June
 - Highlighting and Note-Taking Grade 12physical Science Question Paper June
 - Interactive Elements Grade 12physical Science Question Paper June
8. Staying Engaged with Grade 12physical Science Question Paper June
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade 12physical Science Question Paper June
9. Balancing eBooks and Physical Books Grade 12physical Science Question Paper June
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade 12physical Science Question Paper June
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Grade 12physical Science Question Paper June
 - Setting Reading Goals Grade 12physical Science Question Paper June
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grade 12physical Science Question Paper June
 - Fact-Checking eBook Content of Grade 12physical Science Question Paper June
 - 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 in each of the following redox reactions indicate the elements that undergo changes in oxidation number and the magnitude of change then identify the element oxidized and reduced as well as the oxidizing agent and reducing agent a $\text{I}_2 + 5\text{O}_2 \rightarrow 2\text{IO}_5$
 $5\text{CO} + \text{I}_2 \rightarrow 5\text{CO}_2 + \text{I}_2$ b $5\text{C} + \text{O}_2 \rightarrow 5\text{CO}_2$

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web chemical reactions in which there is a transfer of electrons from one substance to another are known as oxidation reduction reactions or redox reactions in this unit you will examine the oxidation reduction process and use the oxidation state and oxidation number concepts to identify redox reactions and to keep track of electrons

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web jun 28 2010 answers i determine what is oxidized and what in each reaction identify the oxidizing agent and the reducing agent also $2\text{Sr} + \text{O}_2 \rightarrow 2\text{SrO}$ $\text{Sr} \rightarrow \text{Sr}^{2+}$ oxidized reducing agent $\text{O}_2 \rightarrow \text{O}^{2-}$ reduced ox ag $2\text{Li} + \text{S} \rightarrow \text{Li}_2\text{S}$ $\text{Li} \rightarrow \text{Li}^+$ oxidized red ag $\text{S} \rightarrow \text{S}^{2-}$ reduced ox ag $3\text{C}_2\text{S} + 2\text{Br}_2 \rightarrow 3\text{C}_2\text{S}_2 + 4\text{Br}^-$