



## GRADE 8 MATHEMATICS NOVEMBER EXAMINATION PAPER 1

### QUESTION 1

Choose and circle the correct answer.

- 1.1 The third multiple of  $2\frac{1}{2}$  would be? (1)

- A  $\frac{7}{2}$
- B  $\frac{6}{2}$
- C  $\frac{5}{2}$
- D  $\frac{7}{4}$

- 1.2 R7248,40 rounded off to the nearest tenth would be: (1)

- A R7250,00
- B R7248,90
- C R7248,40
- D R7248,00

- 1.3 Determine the following two terms in the sequence: -3; 6; -12; 24; \_\_\_\_; \_\_\_\_ (1)

- A -48; 96
- B -48; -96
- C 48; 96
- D 48; -96

- 1.4 Prime numbers that lie between 8 and 21: (1)

- A 9; 11; 13; 17; 19
- B 11; 13; 17; 19
- C 9; 11; 13; 17; 19
- D 11; 13; 15; 17; 19

1.5  $\sqrt{37^2} =$

- A 37
- B 74
- C undefined
- D 1349

- 1.6 If  $x = 2$ , the value of  $3x^2 - 4x$  would be: (1)

- A 28
- B 8
- C 20
- D 22

(1)

(1)

5 x 1 = 5

### QUESTION 2

Write True or False:

- 2.1 16 out of 20 for a test would be 75%. \_\_\_\_\_ (1)

- 2.2  $3(3+2) = (3 \times 3) + (3 \times 2)$  \_\_\_\_\_ (1)

- 2.3 78432 is divisible by 4. \_\_\_\_\_ (1)

- 2.4  $\frac{10}{100}$  in decimal notation is 0,8. \_\_\_\_\_ (1)

- 2.5  $(x^2)^3 = x^5$  \_\_\_\_\_ (1)

5 x 1 = 5

### QUESTION 3: WHOLE NUMBERS

- 3.1 Determine the LCM of 6, 8 and 12. \_\_\_\_\_ (2)

\_\_\_\_\_ (2)

- 3.2 Write down the multiples of 12 between 24 and 96. \_\_\_\_\_ (2)

\_\_\_\_\_ (2)

- 3.3 Write as a number: two million, one hundred and sixty-two thousand, three hundred seventy-two. \_\_\_\_\_ (2)

\_\_\_\_\_ (2)

# November 2013 Grade 1 chemistry Paper

**Philippines**

## **November 2013 Grade 1chemistry Paper:**

**University Trends** Jonathan Coulson,Paul Roberts,Isabelle Taylor,2014-09-15 A university campus is a place with special resonance conjuring images of cloistered quadrangles and wood panelled libraries often echoing centuries of scholarly tradition And yet it is also a place of cutting edge science interactive learning youth vibrancy and energy It is this dual nature which makes the physical environment of a university so dynamic as well as a highly challenging landscape to design and manage successfully Today the scale of the pressures and the rate of change facing higher education institutions are greater than ever Squeezed public spending rising tuition fees and the growing education ambitions of developing nations are set against a backdrop of rapid technological progress and changing pedagogies What are the repercussions for the physical realities of university planning and architecture And how are university campuses adapting to contend with these pressures University Trends introduces the most significant widespread and thought provoking trends in campus design today Part 1 identifies current trends such as starchitecture large scale campus extensions adaptive re use and international branch campuses Part 2 profiles each trend via highly illustrated global case studies of well publicised as well as lesser known projects The essential guide to current and future trends in campus design

## **Food Processing** Stephanie Clark,Stephanie Jung,Buddhi Lamsal,2014-04-03

**FOOD PROCESSING** Food Processing Principles and Applications Second Edition is the fully revised new edition of this best selling food technology title Advances in food processing continue to take place as food scientists and food engineers adapt to the challenges imposed by emerging pathogens environmental concerns shelf life quality and safety as well as the dietary needs and demands of humans In addition to covering food processing principles that have long been essential to food quality and safety this edition of Food Processing Principles and Applications unlike the former edition covers microbial enzyme inactivation kinetics alternative food processing technologies as well as environmental and sustainability issues currently facing the food processing industry The book is divided into two sections the first focusing on principles of food processing and handling and the second on processing technologies and applications As a hands on guide to the essential processing principles and their applications covering the theoretical and applied aspects of food processing in one accessible volume this book is a valuable tool for food industry professionals across all manufacturing sectors and serves as a relevant primary or supplemental text for students of food science

## **Psychological**

**and Pedagogical Considerations in Digital Textbook Use and Development** Railean, Elena,2015-04-30 This book offers balanced coverage of the technological solutions that contribute to the design of digital textbooks and contribute to achieving learning objectives offering an emphasis on assessment mechanisms and learning theory

## **The Qualified Student** Harold S. Wechsler,2017-09-29

In The Qualified Student Harold S Wechsler focuses on methods of student selection used by institutions of higher education in the United States More specifically he discusses the way that college and university reformers employed those methods to introduce higher education into a broader cross section of America by extending

access to an increased number of students from nontraditional backgrounds Implicit in much of this book is an underlying social and ethical question How legitimate was and is higher education's regulation of social mobility Public concern over colleges and universities practices became inevitable once they became regulators between social classes The challenging of colleges admissions policies in the courts augments similar concerns that have been present in legislatures for decades The volume is divided into three main sections Prerequisites Columbia and the Selective Function and Implications It focuses mainly on four universities The University of Michigan Columbia University the University of Chicago and the City University of New York Wechsler maintains that unlike other universities these institutions were pacesetters they did not adopt a new policy simply because some other college had already adopted it A new introduction brings the book originally published in 1977 up to date and demonstrates its continuing importance in today's academic world of selective admissions     *Ultimate Guide for FCI Assistant Grade - III Recruitment Exam Paper 1 & 2* Disha Experts,2019-03-26 The book Ultimate Guide for FCI Assistant Grade III Recruitment Exam Paper 1 Comprehensive Sections on Quantitative Aptitude General Intelligence Verbal Exhaustive question bank at the end of each chapter Solutions to the questions have been provided at the end of each chapter The covers the complete syllabus of Paper 1 2 The Data Interpretation section has been provided for paper 2

**Materials Processing Fundamentals 2023** Samuel Wagstaff,Alexandra Anderson,Adrian S. Sabau,2023-02-05 This volume covers various aspects of the fundamentals synthesis analysis design monitoring and control of metals materials and metallurgical processes and phenomena Topics represented include but are not limited to Use of artificial intelligence or big data in the control or optimization of industrial processes Modelling or optimization of recycle streams and scrap loops Measurement and control in hostile environments Modeling transport phenomena in materials processing and metallurgical processes involving iron steel nonferrous metals and composites Thermodynamics kinetics and physical chemistry of materials processes and modelling thereof     Realising Learning Keith Wood,Saratha Sithamparam,2014-07-25 The best professional development for teachers focuses on issues they encounter in the classroom It is collaborative school based learning focused and supports teachers in solving problems of pedagogy in context Through lesson study teachers are empowered to make decisions to improve pedagogy curriculum and assessment based on evidence of the effect of design on learning Being explicit about the theories of learning underpinning their teaching decisions allows teachers to develop a shared vocabulary for the diagnosis of learning problems redesign and evaluation of learning situations Learning study introduces a new Variation Theory of Learning It provides a framework for teachers to make critical decisions about what is to be learnt and how The fusion of lesson and learning study is changing the nature of professional development and providing teachers with a voice in the field of educational research In Realising Learning teachers teacher educators and policy makers can share the progress achieved by teachers in Asia and Europe to improve teaching and learning

*Specifications Grading* Linda B. Nilson,2023-07-03 In her latest book Linda Nilson puts forward an innovative but

practical and tested approach to grading that can demonstrably raise academic standards motivate students tie their achievement of learning outcomes to their course grades save faculty time and stress and provide the reliable gauge of student learning that the public and employers are looking for She argues that the grading system most commonly in use now is unwieldy imprecise and unnecessarily complex involving too many rating levels for too many individual assignments and tests and based on a hairsplitting point structure that obscures the underlying criteria and encourages students to challenge their grades This new specifications grading paradigm restructures assessments to streamline the grading process and greatly reduce grading time empower students to choose the level of attainment they want to achieve reduce antagonism between the evaluator and the evaluated and increase student receptivity to meaningful feedback thus facilitating the learning process all while upholding rigor In addition specs grading increases students motivation to do well by making expectations clear lowering their stress and giving them agency in determining their course goals Among the unique characteristics of the schema all of which simplify faculty decision making are the elimination of partial credit the reliance on a one level grading rubric and the bundling of assignments and tests around learning outcomes Successfully completing more challenging bundles or modules earns a student a higher course grade Specs grading works equally well in small and large class settings and encourages authentic assessment Used consistently over time it can restore credibility to grades by demonstrating and making transparent to all stakeholders the learning outcomes that students achieve This book features many examples of courses that faculty have adapted to spec grading and lays out the surprisingly simple transition process It is intended for all members of higher education who teach whatever the discipline and regardless of rank as well as those who oversee train and advise those who teach Specification grading promotes the following values and outcomes 1 Upholds High Academic Standards2 Reflects Student Attainment of Skills and Knowledge 3 Motivates Students to Learn and to Excel4 Fosters Higher Order Cognitive Development and Creativity5 Discourages Cheating6 Reduces Student Stress7 Makes Students Feel Responsible for Their Grades8 Minimizes Conflict Between Faculty and Students9 Saves Faculty Time and Is Simple to Administer10 Makes Expectations Clear and Simplifies Feedback for Improvement11 Assesses Authentically12 Achieves High Inter Rater Agreement

### **Innovative Process Development in Metallurgical Industry**

Vaikuntam Iyer Lakshmanan,Raja Roy,V. Ramachandran,2015-10-26 This book describes the phases for innovative metallurgical process development from concept to commercialization Key features of the book include Need for process innovation Selection and optimization of process steps Determination of the commercial feasibility of a process including engineering and equipment selection Determination of the environmental footprint of a process Case study examples of innovative process development

**Sustainable Plastics** Joseph P. Greene,2014-09-22 Providing guidelines for implementing sustainable practices for traditional petroleum based plastics biobased plastics and recycled plastics Sustainable Plastics and the Environment explains what sustainable plastics are why sustainable plastics are needed which

sustainable plastics to use and how manufacturing companies can integrate them into their manufacturing operations A vital resource for practitioners scientists researchers and students the text includes impacts of plastics including Life Cycle Assessments LCA and sustainability strategies related to biobased plastics and petroleum based plastics as well as end of life options for petroleum and biobased plastics     Periodico di Mineralogia Vol. 83,1 april 2014 Antonio Gianfagna,2014-05-15  
Cristian Biagioli Elena Bonaccorsi Yves Mollo and Paolo Orlandi Mercury arsenic sulfosalts from the Apuan Alps Tuscany Italy III Aktashite Cu<sub>6</sub>Hg<sub>3</sub>As<sub>4</sub>S<sub>12</sub> and laffittite AgHgAsS<sub>3</sub> from the Monte Arsiccio mine occurrence and crystal structure Gabriele Cruciani Dario Fancello Marcello Franceschelli Massimo Scodina and Maria Elena Spano Geothermobarometry of Al silicate bearing migmatites from the Variscan chain of NE Sardinia Italy a P T pseudosection approach Paolo Ballirano Dependence of structural data from sin extension in Rietveld refinement of virtually texture free laboratory X ray powder diffraction data Kamal Siahcheshm Ali Asghar Calagari Ali Abedini and Sven Sindern Elemental mobility and mass changes during alteration in the Maher Abad porphyry Cu Au deposit SW Birjand Eastern Iran Ozlem Akgul Nil Baran Acarali Nurcan Tugrul Emek Moroydor Derun and Sabriye Piskin X Ray Thermal FT IR and morphological studies of zinc borate in presence of boric acid synthesized by ulexite Giuseppe Montana Luciana Randazzo Cristina Maria Belfiore Mauro Francesco La Russa Silvestro Antonio Ruffolo Anna Maria De Francesco Antonino Pezzino Rosalda Punturo and Vincenzo Di Stefano An original experimental approach to study the alteration and or contamination of archaeological ceramics originated by seawater burial Shanke Liu He Li and Jianming Liu Reliability of the structural data for calcite and dolomite extracted from X ray powder diffraction by Rietveld refinement

### **15N Tracing of Microbial Assimilation, Partitioning and Transport of**

**Fertilisers in Grassland Soils** Alice Fiona Charteris,2019-10-28 This book presents innovative research on soil nitrogen cycling and nitrate leaching with a view to improving soil management and fertiliser nitrogen use efficiency and reducing nitrogen leaching losses In this regard nitrogen 15 15N labelled fertiliser was used as a biochemical and physical stable isotope tracer in laboratory and field experiments The major outcome of the research was the development validation and application of a new compound specific amino acid 15N stable isotope probing method for assessing the assimilation of fertiliser nitrogen by soil microbial biomass The novelty of the method lies in its tracing of incorporated nitrogen into newly biosynthesised microbial protein in time course experiments using gas chromatography combustion isotope ratio mass spectrometry The approach provides previously unattainable insights into the microbial processing of different nitrogen fertilisers in different soils Further it identifies the mechanistic link between molecular scale processes and observations of field scale fertiliser nitrogen immobilisation studies The method and the results presented here will have far reaching implications for the development of enhanced recommendations concerning farm based soil management practices for increasing soil productivity and reducing nitrogen losses which is essential to minimising environmental impacts

**Einstein Relatively Simple: Our Universe Revealed In Everyday Language** Ira Mark Egdall,2014-01-06 Outstanding

Academic Title for 2014 by CHOICE Einstein Relatively Simple brings together for the first time an exceptionally clear explanation of both special and general relativity. It is for people who always wanted to understand Einstein's ideas but never thought they could. Told with humor, enthusiasm and rare clarity, this entertaining book reveals how a former high school drop out revolutionized our understanding of space and time. From E=mc<sup>2</sup> and everyday time travel to black holes and the big bang, Einstein Relatively Simple takes us all regardless of our scientific backgrounds on a mind-boggling journey through the depths of Einstein's universe. Along the way we track Einstein through the perils and triumphs of his life, follow his thinking, his logic and his insights, and chronicle the audacity, imagination and sheer genius of the man recognized as the greatest scientist of the modern era. In Part I on special relativity we learn how time slows and space shrinks with motion and how mass and energy are equivalent. Part II on general relativity reveals a cosmos where black holes trap light and stop time, where wormholes form gravitational time machines, where space itself is continually expanding and where some 13.7 billion years ago our universe was born in the ultimate cosmic event, the Big Bang.

**Science Education Research and Practice in Asia** Mei-Hung Chiu, 2016-06-10 This book discusses the scope of science education research and practice in Asia. It is divided into five sections: the first consists of nine chapters providing overviews of science education in Asia (China, Lebanon, Macau, Malaysia, Mongolia, Oman, Singapore, Taiwan, and Thailand). The second section offers chapters on content analysis of research articles, while the third includes three chapters on assessment and curriculum. The fourth section includes four chapters on innovative technology in science education, and the fifth section consists of four chapters on professional development and informal learning. Each section also has additional chapters providing specific comments on the content. This collection of works provides readers with a starting point to better understand the current state of science education in Asia.

**History of Soy Flour, Grits and Flakes (510 CE to 2013)** William Shurtleff, Akiko Aoyagi, 2013-12-01 The world's most comprehensive, well-documented and well-illustrated book on this subject. With extensive index, 28 cm.  
[Handbook of Research on Science Teacher Education](#) Julie A. Luft, M. Gail Jones, 2022-04-26 This groundbreaking handbook offers a contemporary and thorough review of research relating directly to the preparation, induction, and career-long professional learning of K-12 science teachers. Through critical and concise chapters, this volume provides essential insights into science teacher education that range from their learning as individuals to the programs that cultivate their knowledge and practices. Each chapter is a current review of research that depicts the area and then points to empirically based conclusions or suggestions for science teacher educators or educational researchers. Issues associated with equity are embedded within each chapter. Drawing on the work of over one hundred contributors from across the globe, this handbook has 35 chapters that cover established, emergent, diverse, and pioneering areas of research, including Research methods and methodologies in science teacher education, including discussions of the purpose of science teacher education research and equitable perspectives. Formal and informal teacher education programs that span from early childhood educators to the complexity of

preparation to the role of informal settings such as museums Continuous professional learning of science teachers that supports building cultural responsiveness and teacher leadership Core topics in science teacher education that focus on teacher knowledge educative curricula and working with all students and Emerging areas in science teacher education such as STEM education global education and identity development This comprehensive in depth text will be central to the work of science teacher educators researchers in the field of science education and all those who work closely with science teachers

*Representations of Nature of Science in School Science Textbooks* Christine McDonald,Fouad Abd-El-Khalick,2017-04-21 Bringing together international research on nature of science NOS representations in science textbooks the unique analyses presented in this volume provides a global perspective on NOS from elementary to college level and discusses the practical implications in various regions across the globe Contributing authors highlight the similarities and differences in NOS representations and provide recommendations for future science textbooks This comprehensive analysis is a definitive reference work for the field of science education

### **Competence Assessment in Education**

Detlev Leutner,Jens Fleischer,Juliane Grünkorn,Eckhard Klieme,2017-03-27 This book addresses challenges in the theoretically and empirically adequate assessment of competencies in educational settings It presents the scientific projects of the priority program Competence Models for Assessing Individual Learning Outcomes and Evaluating Educational Processes which focused on competence assessment across disciplines in Germany The six year program coordinated 30 research projects involving experts from the fields of psychology educational science and subject specific didactics The main reference point for all projects is the concept of competencies which are defined as context specific cognitive dispositions that are acquired and needed to successfully cope with certain situations or tasks in specific domains Koeppen et al 2008 p 62 The projects investigate different aspects of competence assessment The primary focus lies on the development of cognitive models of competencies complemented by the construction of psychometric models based on these theoretical models In turn the psychometric models constitute the basis for the construction of instruments for effectively measuring competencies The assessment of competencies plays a key role in optimizing educational processes and improving the effectiveness of educational systems This book contributes to this challenging endeavor by meeting the need for more integrative interdisciplinary research on the structure levels and development of competencies

### **Critical Mineral Resources of the United States**

K. J. Schulz,John H. DeYoung,Robert R. Seal,Dwight C. Bradley,2017 As the importance and dependence of specific mineral commodities increase so does concern about their supply The United States is currently 100 percent reliant on foreign sources for 20 mineral commodities and imports the majority of its supply of more than 50 mineral commodities Mineral commodities that have important uses and face potential supply disruption are critical to American economic and national security However a mineral commodity's importance and the nature of its supply chain can change with time a mineral commodity that may not have been considered critical 25 years ago may be critical today and one considered critical

today may not be so in the future The U S Geological Survey has produced this volume to describe a select group of mineral commodities currently critical to our economy and security For each mineral commodity covered the authors provide a comprehensive look at 1 the commodity's use 2 the geology and global distribution of the mineral deposit types that account for the present and possible future supply of the commodity 3 the current status of production reserves and resources in the United States and globally and 4 environmental considerations related to the commodity's production from different types of mineral deposits The volume describes U S critical mineral resources in a global context for no country can be self sufficient for all its mineral commodity needs and the United States will always rely on global mineral commodity supply chains This volume provides the scientific understanding of critical mineral resources required for informed decisionmaking by those responsible for ensuring that the United States has a secure and sustainable supply of mineral commodities      **Official Gazette Philippines, 2013**

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