

## GRADE 12 PHYSICAL SCIENCES MARCH TEST

### QUESTION 1

Various options are provided as possible answers to the following questions. Choose the correct answer and write **ONLY** the LETTER (A-D) next to the QUESTION NUMBER (1.1-1.7) on your folio paper. Example 1.8. D.

- 1.1 Which of the following pairs of compounds contains members of the same homologous series?
- A Ethanol and butane  
 B Ethanol and ethanoic acid  
 C Ethanol and propanal  
 D Ethanol and butanoic acid
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0N.



- A A constant number of electrons in the outer shell.  
 B A constant number of protons in the nucleus.  
 C An element that undergoes a particular chemical reaction.  
 D An element that forms a particular compound.
- 1.3 Which of the statements below best describes Weightlessness?
- A An object is free of contact forces.  
 B An object is free of contact forces and is in a state of free fall.  
 C An object is free of contact forces and is in a state of free fall.  
 D An object is free of contact forces and is in a state of free fall.
- 1.4 The inertia of an object...
- A is a measure of its mass.  
 B is a measure of its weight.  
 C is a measure of its volume.  
 D is a measure of its density.

- 1.5 An astronaut has a weight  $E_E$  on Earth. What distance, in terms of the radius of the Earth ( $r$ ), will the astronaut be if his weight is a 1/4 of his weight ( $E_E$ ) on the surface of the Earth?
- A  $r$   
 B  $2r$   
 C  $4r$   
 D  $16r$

- 1.6 A box is pushed forward with a force of 100N but does not move. A possible reason for this is that:
- A The box is too heavy.  
 B The box is too light.  
 C The box is too big.  
 D The box is too small.
- 1.7 A box is pushed forward with a force of 100N but does not move. A possible reason for this is that:
- A The box is too heavy.  
 B The box is too light.  
 C The box is too big.  
 D The box is too small.

[14]

### QUESTION 2

Three organic compounds (A, B and C) with different functional groups are given below.

A: 2,3-dimethyl-2-one



C:  $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$

- 2.1 Write down the functional group of compound C and name the cation to form such a variety of organic compounds. (2)
- 2.2 Define the term functional group. (2)
- 2.3 Write down the:  
 2.3.1 IUPAC name of compound A. (2)  
 2.3.2 IUPAC name of compound B. (2)

# Exampler Paper Grade 12 For Physical Sciences 2014

**Ying-Ying Zheng**



### **Exampler Paper Grade 12 For Physical Sciences 2014:**

*Disha Combo (4 Books) 13 Years CBSE Class 12 Solved Physics, Chemistry, Biology & English Core Previous Year-wise Question Papers (2013 - 2025) 4th Edn | PYQs | 2026 CBSE Question Bank Class 12* , The latest updated 5th Edition of the books 13 Year CBSE Board Physics Chemistry Biology English Core Class 12 YEAR WISE Solved Papers 2013 2025 powered with Concept Notes is a must have book for aspirants who are looking for better score in CBSE exams The Books contain the Past 13 Years Authentic Solved papers of CBSE Board Class 12 including 1 set each of All India Delhi 2025 Exam In all the Books contain 25 Papers including the 2021 CBSE Sample Paper This paper has been included as this year the Board exams were cancelled The USP of the book is the inclusion of Concept Notes highlighting Tips Tricks Alternate solutions Points to Remember in various solutions The Notes will help the students in further revision of syllabus Trend Analysis of of last 6 Years is provided to understand Question trend Errorless Solutions with step by step marking scheme on the lines of CBSE Board and written in a way that any student can understand easily *Disha Combo (4 Books) 13 Years CBSE Class 12 Solved Physics, Chemistry, Mathematics & English Core Previous Year-wise Question Papers (2013 - 2025) 4th Edn | PYQs | 2026 CBSE Question Bank Class 12* , The latest updated 5th Edition of the books 13 Year CBSE Board Physics Chemistry Mathematics English Core Class 12 YEAR WISE Solved Papers 2013 2025 powered with Concept Notes is a must have book for aspirants who are looking for better score in CBSE exams The Books contain the Past 13 Years Authentic Solved papers of CBSE Board Class 12 including 1 set each of All India Delhi 2025 Exam In all the Books contain 25 Papers including the 2021 CBSE Sample Paper This paper has been included as this year the Board exams were cancelled The USP of the book is the inclusion of Concept Notes highlighting Tips Tricks Alternate solutions Points to Remember in various solutions The Notes will help the students in further revision of syllabus Trend Analysis of of last 6 Years is provided to understand Question trend Errorless Solutions with step by step marking scheme on the lines of CBSE Board and written in a way that any student can understand easily *Current And Advanced Researches In Science And Math Education I* Tayfun Tutak,2024-05-03

**Bridging Research and Practice in Science Education** Eilish McLoughlin, Odilla E. Finlayson, Sibel Erduran, Peter E. Childs, 2019-08-27 This edited volume presents innovative current research in the field of Science Education The chapters deal with a wide variety of topics and research approaches conducted in a range of contexts and settings Together they make a strong contribution to knowledge on science teaching and learning The book consists of selected presentations from the 12th European Science Education Research Association ESERA Conference held in Dublin Ireland from 21st to 25th August 2017 The ESERA community is made up of professionals with diverse disciplinary backgrounds from natural sciences to social sciences This diversity enables a rich understanding of cognitive and affective aspects of science teaching and learning The studies in this book will stimulate discussion and interest in finding new ways of implementing and researching science education for the future The twenty two chapters in this book are presented in four parts highlighting innovative approaches

to school science emerging identities in science education approaches to developing learning and competence progressions and ways of enhancing science teacher education This collection of studies showcases current research orientations in science education and is of interest to science teachers teacher educators and science education researchers around the world with a commitment to bridging research and practice in science teaching and learning

**Science Education in East Asia** Myint Swe Khine, 2015-09-03 This book presents innovations in teaching and learning science novel approaches to science curriculum cultural and contextual factors in promoting science education and improving the standard and achievement of students in East Asian countries The authors in this book discuss education reform and science curriculum changes and promotion of science and STEM education parental roles and involvement in children s education teacher preparation and professional development and research in science education in the context of international benchmarking tests to measure the knowledge of mathematics and science such as the Trends in Mathematics and Science Study TIMSS and achievement in science mathematics and reading like Programme for International Student Assessment PISA Among the high achieving countries the performance of the students in East Asian countries such as Singapore Taiwan Korea Japan Hong Kong and China Shanghai are notable This book investigates the reasons why students from East Asian countries consistently claim the top places in each and every cycle of those study It brings together prominent science educators and researchers from East Asia to share their experience and findings reflection and vision on emerging trends pedagogical innovations and research informed practices in science education in the region It provides insights into effective educational strategies and development of science education to international readers

Introducing Teachers and Administrators to the NGSS Eric Brunsell, Deb M. Kneser, Kevin J. Niemi, 2014-05-01 If you re charged with helping educators achieve the vision of the new science standards this is the professional development resource you need This book is chock full of activities and useful advice for guiding teachers and administrators as they put the standards into practice in the classroom Written by three experts in professional development for science teachers Introducing Teachers and Administrators to the NGSS Introduces the vocabulary structure and conceptual shifts of the NGSS Explores the three dimensions of the Framework science and engineering practices crosscutting concepts and disciplinary core ideas and how they re integrated in the NGSS Provides classroom case studies of instructional approaches for students challenged by traditional science teaching Covers curricular decisions involving course mapping designing essential questions and performance assessments and using the NGSS to plan units of instruction Examines the connections between the NGSS and the Common Core State Standards Offers advice for getting past common professional development sticking points and finding further resources Given the widespread changes in today s education landscape teachers and administrators may feel overwhelmed by the prospect of putting the new standards into practice If you re a science specialist curriculum coordinator or instructional coach who provides professional development you will find this collection immensely helpful for heading off initiative fatigue whether in an

individual school or throughout a district      **Oswaal CBSE 10 Previous Years' Solved Papers, Yearwise (2013-2023) Science (PCM) English Core, Physics, Chemistry & Mathematics Class 12 Book (For 2024 Exam)** Oswaal Editorial Board, 2023-06-06 Description of the product 100% Updated with the Latest CBSE Board Paper 2023 Valuable Exam Insights with Out of Syllabus Questions highlighted 100% Exam readiness with Commonly Made Errors and Answering Tips Concept Clarity with Topper s and Board Marking Scheme Answers Crisp revision with Mind Maps and Revision Notes      *Quality of Instruction in Physics* Hans E. Fischer, Peter Labudde, Knut Neumann, Jouni Viiri, 2014 This book reports the findings from the tri national video study Quality of Instruction in Physics QuIP Within the scope of the QuIP study physics instruction was investigated in a total of 103 classes from Finland North Rhine Westphalia Germany and German speaking Switzerland The main aim was to identify typical patterns of physics instruction of the three samples and to investigate conditions under which these patterns are successful with respect to students learning interest and motivation Among others instructional characteristics the quality of students practical work successful patterns of sequencing the subject matter structure and teaching strategies were investigated by means of analyses of video recorded lessons Variables external to instruction that were investigated included teachers professional knowledge and students cognitive abilities The study followed a pre post design with data collection prior to and after an instructional unit on electrical energy and power The results are well in line with the findings from large scale international studies indicating a particularly successful instructional pattern in Finland A comparison of characterisation of instruction in comparison between the three countries reveals important findings for the improvement of the teaching and learning of physics in secondary school education      **Insights from Research in Science Teaching and Learning** Nicos Papadouris, Angela Hadjigeorgiou, Constantinos P. Constantinou, 2015-11-02 This book includes studies that represent the state of the art in science education research and convey a sense of the variation in educational traditions around the world The papers are organized into six main sections science teaching processes conceptual understanding reasoning strategies early years science education and affective and social aspects of science teaching and learning The volume features 18 papers selected from the most outstanding papers presented during the 10th European Science Education Research Association ESERA Conference held in Nicosia Cyprus in September 2013 The theme of the conference was Science Education Research for Evidence based Teaching and Coherence in Learning The studies presented underline aspects of great relevance in contemporary science education the need to reflect on different approaches to enhance our knowledge of learning processes and the role of context designed or circumstantial formal or non formal in learning and instruction These studies are innovative in the issues they explore the methods they use or the ways in which emergent knowledge in the field is represented The book is of interest to science educators and science education researchers with a commitment to evidence informed teaching and learning      Canadian Journal of Physics , 2015

*Learning to Read the Earth and Sky* Russ Colson , Mary Colson, 2016-12-01 Is it time to refresh the way you think about

teaching Earth science Learning to Read the Earth and Sky is the multifaceted resource you need to bring authentic science and enthusiasm into your classroom It offers inspiration for reaching beyond prepared curricula engaging in discovery along with your students and using your lessons to support the Next Generation Science Standards NGSS The book provides examples of Earth science labs and activities you and your students can do as co investigators insights into student expectations and misconceptions plus ideas for inspiring true investigation stories of real scientific discovery translated for classroom consideration exploration of how you can mentor students as a teacher scholar and guidance on how to translate the sweeping core ideas of the NGSS into specific examples students can touch see and experience The authors of Learning to Read the Earth and Sky are husband and wife educators who promote science as something to figure out not just something to know They write It is our hope that readers will find our book short on edu speak long on the joy of doing science and full of stories of students classrooms scientists and Earth and sky

**Handbook on the Economics and Management of Sustainable Oceans** Paulo A.L.D. Nunes,Lisa Emelia Svensson,Anil Markandya,2017-02-24 The trans disciplinary thematic areas of oceans management and policy require stocktaking of the state of knowledge on ecosystem services being derived from coastal and marine areas Recently adopted Sustainable Development Goals SDGs especially Goals 14 and 15 explicitly focus on this This Handbook brings together a carefully chosen set of world class contributions from ecology economics and other development science and attempts to provide policy relevant scientific information on ecosystem services from marine and coastal ecosystems nuances of economic valuation relevant legal and sociological response policies for effective management of marine areas for enhanced human well being The contributors focus on the possible nexus of science society and science policy with the objective of informing on decision makers of the governmental agencies business and industry and civil society in general with respect to sustainable management of Oceans

**Physics Briefs** ,1994 **Next Generation Assessment** Linda Darling-Hammond,2014-07-16 A forward thinking look at performance assessment in the 21st century Next Generation Assessment Moving Beyond the Bubble Test to Support 21st Century Learning provides needed answers to the nation s growing concerns about educational testing in America Drawing on research and the experiences of leading states and countries this new book examines how performance assessments can offer a feasible alternative to current high stakes tests As parents educators and policymakers have increasingly criticized the effects of the teaching to the test mandate from the No Child Left Behind Act the need for this resource has never been more critical This summary volume to Beyond the Bubble Test speaks to the nationwide unease about current tests focus on low level skills like recalling and restating facts rather than higher order skills such as problem solving analyzing and synthesizing information It illustrates how schools can use authentic assessments to improve teaching and learning as they involve students in conducting research designing investigations developing products and solutions using technology and communicating their ideas in many forms This important book Serves as a must have resource for those interested in the

most current research about how to create valid and reliable performance assessments Explains how educators can improve practice by developing using and scoring performance assessments Helps policymakers and educators accurately assess the benefits and possibilities of adopting performance assessments nationally If you re an educator researcher graduate student district administrator or education policy specialist Next Generation Assessment is an indispensable resource you ll turn to again and again Information Engineering and Education Science Dawei Zheng,2015-04-30 This proceedings volume contains selected papers presented at the 2014 International Conference on Information Engineering and Education Science ICIEES 2014 held June 12 13 in Hong Kong China The objective of ICIEES 2014 was to provide a platform for researchers engineers academics as well as industry professionals from all over the world to Periodico di Mineralogia Vol. 84, 3B (Special Issue), December, 2015 Eugenio Fazio,Patrizia Fiannacca,Gaetano Ortolano,Rosalda Punturo,Davide Zanoni,Michele Zucali,2016-02-04 CONTENTS Omar Bartoli Antonio Acosta Vigil and Bernardo Cesare High temperature metamorphism and crustal melting working with melt inclusions Igor M Villa 39Ar 40Ar geochronology of mono and polymetamorphic basements Antonio Langone and Massimo Tiepolo U Th Pb multi phase approach to the study of crystalline basement application to the northernmost sector of the Ivrea Verbano Zone Alps Gabriele Cruciani Chiara Montomoli Rodolfo Carosi Marcello Franceschelli and Mariano Puxeddu Continental collision from two perspectives a review of Variscan metamorphism and deformation in northern Sardinia Rosolino Cirrincione Eugenio Fazio Patrizia Fiannacca Gaetano Ortolano Antonino Pezzino and Rosalda Punturo The Calabria Peloritani Orogen a composite terrane in Central Mediterranean its overall architecture and geodynamic significance for a pre Alpine scenario around the Tethyan basin Gisella Rebay Maria Pia Riccardi and Maria Iole Spalla Fluid rock interactions as recorded by Cl rich amphiboles from continental and oceanic crust of Italian orogenic belts Guido Gosso Gisella Rebay Manuel Roda Maria Iole Spalla Massimo Tarallo Davide Zanoni and Michele Zucali Taking advantage of petrostructural heterogeneities in subduction collisional orogens and effect on the scale of analysis

*Neutrosophic Sets and Systems, vol. 3/2014* Fu Yuhua,A.A.Salama, Florentin Smarandache ,A.A.A.Agboola , S.A. Akinleye,Mamouni Dhar, Said Broumi ,Vasanthakandasamy, Sekar. P and Vidhyalakshmi, Neutrosophic Sets and Systems has been created for publications on advanced studies in neutrosophy neutrosophic set neutrosophic logic neutrosophic probability neutrosophic statistics that started in 1995 and their applications in any field such as the neutrosophic structures developed in algebra geometry topology etc Oswaal CBSE 10 Previous Years' Solved Papers & Sample Question Papers Class 12 (English Core, Physics, Chemistry & Biology) (Set of 5 Books) (For Board Exams 2024) Oswaal editorial board,2023-09-26 DESCRIPTION OF THE PRODUCT 100% Updated with the Latest CBSE Board Paper 2023 Valuable Exam Insights with Out of Syllabus Questions highlighted Concept Clarity with Topper s and Board Marking Scheme Answers Crisp revision with Mind Maps and Revision Notes Fresh Relevant with 2024 CBSE SQP Fully Solved Analysed Insider Tips Techniques with On Tips Notes Mind Maps Mnemonics Exam Ready to Practice with 10 Highly Probable SQPs with Actual

Board Answer sheets      *Technological Innovation in Legacy Sectors* William B. Bonvillian, Charles Weiss, 2015-08-18 The American economy faces two deep problems expanding innovation and raising the rate of quality job creation Both have roots in a neglected problem the resistance of Legacy economic sectors to innovation While the U S has focused its policies on breakthrough innovations to create new economic frontiers like information technology and biotechnology most of its economy is locked into Legacy sectors defended by technological economic political social paradigms that block competition from disruptive innovations that could challenge their models Americans like to build technology covered wagons and take them out west to open new innovation frontiers we don't head our wagons back east to bring innovation to our Legacy sectors By failing to do so the economy misses a major opportunity for innovation which is the bedrock of U S competitiveness and its standard of living Technological Innovation in Legacy Sectors uses a new unifying conceptual framework to identify the shared features underlying structural obstacles to innovation in major Legacy sectors energy air and auto transport the electric power grid buildings manufacturing agriculture health care delivery and higher education and develops approaches to understand and transform them It finds both strengths and obstacles to innovation in the national innovation environments a new concept that combines the innovation system and the broader innovation context for a group of Asian and European economies Manufacturing is a major Legacy sector that presents a particular challenge because it is a critical stage in the innovation process By increasingly offshoring production the U S is losing important parts of its innovation capacity Innovate here produce here where the U S took all the gains of its strong innovation system at every stage is being replaced by innovate here produce there which threatens to lead to produce there innovate there To bring innovation to Legacy sectors authors William Bonvillian and Charles Weiss recommend that policymakers focus on all stages of innovation from research through implementation They should fill institutional gaps in the innovation system and take measures to address structural obstacles to needed disruptive innovations In the specific case of advanced manufacturing the production ecosystem can be recreated to reverse jobless innovation and add manufacturing led innovation to the U S's still strong research oriented innovation system

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