

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 propanone
- 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 different ions are released.
 B A new element is formed and the original quantities of the elements are conserved.
 C An ionic substance gains a positive charge from the reaction.
 D An ionic substance is oxidising substances.
- 1.3 Which of the statements below best describes Weightlessness?
- A An object is free of contact forces and is in free fall.
 B An object is moving in a circle at a constant speed but is not accelerating.
 C An object is in a state of free fall where the only force acting on it is the force of gravity.
 D An object is in a state of free fall where the only force acting on it is the force of gravity.
- 1.4 The inertia of an object...
- A is measured by its mass and weight.
 B is the resistance to applied forces in the region of acceleration.
 C is the resistance to acceleration in the region of velocity.
 D increases as the frictional force on the object increases.

- 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 Frictional force is zero.
 B Frictional force is more than 100N.
 C Frictional force is less than 100N.
 D None of the above.
- 1.7 A box is pushed forward with a force of 100N but does not move. A possible reason for this is that:
- A Frictional force is zero.
 B Frictional force is more than 100N.
 C Frictional force is less than 100N.
 D None of the above.

[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 which is present in 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)

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Strategic Management and the Circular Economy Marcello Tonelli,Nicolò Cristoni,2018-10-26 In recent years the Circular Economy CE has gained worldwide attention as an effective alternative economic system to the current take make waste model of production and consumption As more and more firms begin to recognize the potential of this novel approach the CE quickly moves from theory to practice and the demand for a coherent and structured strategic approach one that companies can rely upon when commencing their circular journey grows accordingly Strategic Management and the Circular Economy aims to bridge the theory practice gap by putting forward a detailed step by step process for analysis formulation and planning of CE strategies Starting from a solid framework of easy to grasp constructs key principles business objectives and areas of intervention the authors guide the reader through an

understanding of how conventional tools for strategic management can be reprogrammed under a CE perspective To assist learning and encourage circular thinking the reader is constantly prompted with examples of how forward looking companies across industries and geographies are already applying circular strategies to future proof their operations boost innovation penetrate new markets and secure customer loyalty **Chemical news and Journal of physical science** ,1870

Landfalling tropical cyclones: physical processes, forecasting and impacts Yihong Duan,Qingqing Li,Guanghua Chen,Hui Yu, Da-Lin Zhang,Kun Zhao,2022-12-29 *The Chemical News and Journal of Physical Science* ,1870 **Creating**

Project-Based STEM Environments Jennifer Wilhelm,Ronald Wilhelm,Merryn Cole,2019-02-05 This book models project based environments that are intentionally designed around the United States Common Core State Standards CCSS 2010 for Mathematics the Next Generation Science Standards NGSS Lead States 2013 for Science and the National Educational Technology Standards ISTE 2008 The primary purpose of this book is to reveal how middle school STEM classrooms can be purposefully designed for 21st Century learners and provide evidence regarding how situated learning experiences will result in more advanced learning This Project Based Instruction PBI resource illustrates how to design and implement interdisciplinary project based units based on the REAL Realistic Explorations in Astronomical Learning Unit 1 and CREATES Chemical Reactions Engineered to Address Thermal Energy Situations Unit 2 The content of the book details these two PBI units with authentic student work explanations and research behind each lesson including misconceptions students might hold regarding STEM content pre post research results of unit implementation with over 40 teachers and thousands of students In addition to these two units there are chapters describing how to design one's own research based PBI units incorporating teacher commentaries regarding strategies obstacles overcome and successes as they designed and implemented their PBI units for the first time after learning how to create PBI STEM Environments the REAL way **An**

Invitation to Environmental Sociology Michael Mayerfeld Bell,Loka L. Ashwood,Isaac Sohn Leslie,Laura Hanson Schlachter,2020-09-23 If there were ever a time for environmental sociology it is now As COVID 19 is spreading across our communities our countries our world we have all become too familiar with maintaining that awful term of social distance Yet there can be no true distance from that which is always with us and within us our social ecology An Invitation to Environmental Sociology invites students to delve into this rapidly changing field Written in a lively engaging style the authors cover a broad range of topics in environmental sociology with a personal passion rarely seen in sociology texts The book's unique organization explores three different kinds of questions about interactions between humans and the natural world the material the ideal and the practical The Sixth Edition of this bestseller comprises 12 chapters instead of 13 making it easier to fit into the normal rhythm of a course But the result is also an edition that is up to date and enriched with much newer material while continuing to use an inviting tone that the title promises Included with this title The password protected Instructor Resource Site formally known as SAGE Edge offers access to all text specific resources including a test

bank and editable chapter specific PowerPoint slides *General Studies Paper I* EDITORIAL BOARD,2015-01-09 Developed by experienced professionals from reputed civil services coaching institutes and recommended by many aspirants of Civil Services Preliminary exam General Studies Paper I contains Precise and Thorough Knowledge of Concepts and Theories essential to go through the prestigious exam Solved Examples are given to explain all the concepts for thorough learning Explanatory Notes have been provided in every chapter for better understanding of the problems asked in the exam v
spublishers Handbook of Research on Science Education, Volume II Norman G. Lederman,Sandra K. Abell,2014-07-11 Building on the foundation set in Volume I a landmark synthesis of research in the field Volume II is a comprehensive state of the art new volume highlighting new and emerging research perspectives The contributors all experts in their research areas represent the international and gender diversity in the science education research community The volume is organized around six themes theory and methods of science education research science learning culture gender and society and science learning science teaching curriculum and assessment in science science teacher education Each chapter presents an integrative review of the research on the topic it addresses pulling together the existing research working to understand the historical trends and patterns in that body of scholarship describing how the issue is conceptualized within the literature how methods and theories have shaped the outcomes of the research and where the strengths weaknesses and gaps are in the literature Providing guidance to science education faculty and graduate students and leading to new insights and directions for future research the Handbook of Research on Science Education Volume II is an essential resource for the entire science education community **Challenges in Higher Education Leadership** James Soto Antony,Ana Mari Cauce,Donna E. Shalala,2017-01-20 In this important resource experienced higher education presidents and senior leaders come together with respected scholars to tackle the most important and timely issues facing leaders in colleges and universities today Challenges in Higher Education Leadership advances critical leadership and management skills across a broad array of topics including student learning access and affordability racism fundraising athletics and new technology Chapters strike a balance between theory and practical advice while promoting the notion that all leaders can learn lessons from one another that can be useful in their own specific contexts This book poses strategic questions readers should answer along with advice about how to effectively address today s challenges providing leaders with the skills and perspectives necessary to respond to higher education students needs **Early Science Education - Goals and Process-Related Quality Criteria for Science Teaching** Yvonne Anders,Ilonca Hardy,Sabina Pauen,Jörg Ramseger,Beate Sodian,Mirjam Steffensky,2017-11-13 Scientific contributions authored by distinguished experts from the field of early education are published periodically within the framework of the series Scientific Studies on the Work of the Haus der kleinen Forscher Foundation This publication series serves to foster informed dialogue between the Foundation scientists and practitioners with the aim of giving all early childhood education and care centres after school centres and primary schools in Germany scientifically sound support in

fulfilling their early education mandate This fifth volume in the series focuses on goals of science education at the level of the children the early childhood professionals and the pedagogical staff at after school centres and primary schools and on process related quality criteria for science teaching at pre primary and primary level In their expert reports Yvonne Anders Ilonca Hardy Sabina Pauen Beate Sodian and Mirjam Steffensky specify pedagogical content dimensions of the goals of early science education at pre primary and primary school age In addition to theoretically underpinning these goals the authors present instruments for their assessment In his expert report Jörg Ramseger formulates ten quality criteria for science teaching Early childhood professionals and pedagogical staff at after school centres and primary schools can draw on these process related criteria when planning lessons and conducting self evaluations of science learning opportunities at pre primary and primary level The concluding chapter of the volume describes the implementation of these expert recommendations in the substantive offerings of and the accompanying research on the Haus der kleinen Forscher Foundation

STEM Teachers and Teaching in the Digital Era Yifat Ben-David Kolikant, Dragana Martinovic, Marina Milner-Bolotin, 2020-02-20 This book brings together researchers from Israel and Canada to discuss the challenges today's teachers and teacher educators face in their practice There is a growing expectation that the 21st century STEM teachers re-examine their teaching philosophies and adjust their practices to reflect the increasing role of digital technologies This expectation presents a significant challenge to teachers who are often asked to implement novel technology rich pedagogies they did not have a chance to experience as students or become comfortable with To exacerbate this challenge the 21st century teachers function not only in a frequently changing educational reality manifested by continuous reforms but are also bombarded by often contradictory and competing demands from the legislators administrators parents and students How do we break the vicious circle of reforms and support STEM teachers in making a real change in student learning This book is unique for at least three reasons First it showcases research situated in Israel and Canada that examines the challenges today's teachers and teacher educators face in their practice While the governments of both countries emphasize STEM education their approaches are different and thus provide for interesting comparisons Second in addition to including research based chapters prominent scholars discuss the contributions in each of the book sections problematizing the issues from a global perspective Third technology has a potential to empower teachers in this era of change and this book provides the unique insights from each country while allowing for comparisons discussing solutions and asking new questions This book will be of interest to all involved in STEM teacher education programs or graduate programs in education as well as to educational administrators interested in implementing technology in their schools

Organization and Administration of Physical Education Jayne D. Greenberg, Judy L. LoBianco, 2025-03-11 The revised SHAPE America National Physical Education Standards are defining physical education PE programs providing the framework for students physical literacy journeys Organization and Administration of Physical Education Theory and Practice Second Edition With HKPropel Access

incorporates the revised standards making it the text administrators need to learn how the standards affect curriculum development and implementation of a successful PE program This edition is thoroughly updated by two award winning educators Jayne Greenberg and Judy LoBianco who are joined by a sterling list of contributors who have taught at every education level in urban suburban and rural settings In this second edition the roles and responsibilities of PE administrators are examined through theoretical and practical lenses Beyond incorporating the revised PE standards and the latest research throughout other enhancements to this edition include the following An expanded technology chapter that addresses equity and the digital divide remote learning virtual and augmented reality and artificial intelligence A more comprehensive chapter on teacher and program evaluation A new chapter on social emotional learning SEL with connections between content pedagogy and practices A new chapter on diversity equity and inclusion that provides culturally responsive teaching approaches to elevate the participation of underrepresented teachers and students New content for physical education department chairpersons The result is an essential manual for future and current administrators in PE leadership positions who want to acquire new skills in the primary six areas of responsibility Part I explores leadership and management styles and presents practical theories of motivation development and planning for the essential components of a quality PE program In part II readers examine various curriculum instruction and assessment models and get guidance on planning special events Part III helps administrators plan new school facilities or renovate existing ones and it presents contemporary concepts in universal design and sustainable environmental design It also offers ideas on how to incorporate technology including developing online PE courses Part IV explores communication legal issues and human resources so administrators can learn how to advocate for their programs Part V explains the fiscal responsibilities inherent in administrative positions and shows how administrators can secure independent funding offering many examples of grants and fundraising opportunities with sample grant applications Part VI new to this edition explores the integration of content and pedagogy with SEL practices It also offers legal and practical strategies to enhance the involvement of those who are underrepresented in PE Each chapter also includes sidebars from professionals who share tips and insights on successful program implementations To further enhance practical application readers have online access to downloadable forms checklists and other supportive materials Published with SHAPE America this text offers the solid foundational theory and practices needed for today s challenges in PE administration Note A code for accessing HKPropel is included with this ebook

The General Science Compendium for IAS Prelims General Studies Paper 1 & State PSC Exams 2nd Edition Disha Experts, 2018-11-19 The thoroughly Revised Updated 2nd Edition of the book The General Science Compendium has been prepared with enormous efforts for all IAS aspirants State PCS and other competitive exams The book is prepared on the concept Latest Information Authentic Data The book has been divided into 4 parts Physics 6 Chapters Chemistry 7 Chapters Biology 7 Chapters Science and Technology 6 Chapters followed by an exercise with 1300 Simple MCQs statement based

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