

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 ethyl ethanoate
 D Ethanol and ethene
- 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 involved.
 B A new element is formed and the original reactants are destroyed.
 C An electron has been gained or lost in the reaction.
 D At least one molecule is oxidised.
- 1.3 Which of the statements below best describes Weightlessness?
- A An object is free of weight and floats in the air.
 B An object is free of weight and floats in the air.
 C An object is free of weight and floats in the air.
 D An object is free of weight and floats in the air.
- 1.4 The inertia of an object...
- A is the same for all objects.
 B is the same for all objects.
 C is the same for all objects.
 D is the same for all objects.

- 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 heavy.
 D The box is too light.

- 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 heavy.
 D The box is too light.

[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)

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Ying-Ying Zheng



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The SAGE Handbook of Outdoor Play and Learning Tim Waller,Eva Årlemalm-Hagsér,Ellen Beate Hansen Sandseter,Libby Lee-Hammond,Kristi Lekies,Shirley Wyver,2017-06-19 There has been a growing academic interest in the role of outdoor spaces for play in a child s development This text represents a coordinated and comprehensive volume of international research on this subject edited by members of the well established European Early Childhood Education Research Association Outdoor Play and Learning SIG OPAL Chapters written by authors from Europe North and South America Australasia and Asia Pacific countries are organised into six sections Theoretical Frameworks and Conceptual Approaches for Understanding Outdoor Play Learning Critical Reflections on Policy and Regulation in Outdoor Play Learning Children s Engagement with Nature Sustainability and Children s Geographies Diverse Contexts and Inclusion in Children s Outdoor Play Environments Methodologies for Researching Outdoor Play and Learning Links Between Research and Practice

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 *Ebook: Child Development: An Introduction* John Santrock,2014-10-16 Accurate Reliable Engaging These are just a few of the words used by adopters and reviewers of John Santrock s Child Development The new topically organised fourteenth edition continues with Santrock s highly contemporary tone and focus featuring over 1 000 new citations The popular Connections theme shows students the different aspects of children s development to help them better understand the concepts Used by hundreds of thousands of students over thirteen editions Santrock s proven learning goals system provides a clear roadmap to course mastery **Bituminous Mixtures and Pavements VI A.**

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Noncommunicable Diseases and Health Promotion David V. McQueen,2013-07-03 Global Handbook on Noncommunicable Diseases and Health Promotion David V McQueen editor A scan of health challenges around the globe readily brings to mind a range of infectious illnesses from HIV to influenza Yet chronic non contagious conditions heart disease asthma diabetes cancer are more prevalent and their rates soaring across the developed and developing worlds The Global Handbook on Noncommunicable Diseases and Health Promotion is an important resource for understanding and approaching chronic illnesses and their prevention This timely text balances theory and strategies to provide an integrative context for health affecting behaviors regarding tobacco use food choices and physical activity Coverage expands on current medical clinical public health perspectives arguing that closer attention to social context is crucial to better use of health resources and more relevant preventive efforts Possible roles for hospitals the workplace government agencies NGOs and

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