

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 propanoic 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 An object moving with constant acceleration.
 B An object moving with constant speed in a straight line.
 C An object moving with constant speed in a circular path.
 D An object moving with constant acceleration.
- 1.3 Which of the statements below best describes Weightlessness?
- A An object moves at constant velocity through the air.
 B An object moves at constant velocity through the air.
 C An object moves at constant velocity through the air.
 D An object moves at constant velocity through the air.
- 1.4 The inertia of an object...
- A increases as the object's velocity increases.
 B increases as the object's mass increases.
 C increases as the object's acceleration increases.
 D increases as the object's speed 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 $8r$

- 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 smooth.
 D The box is too rough.
- 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 smooth.
 D The box is too rough.

[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)

Physical Science Paper Grade 12 March 2014

Oswaal Editorial Board



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Daily Graphic Ransford Tetteh, 2014-03-12 **CUET (UG) 20 Combined Mock Test Papers Science (PCM) Stream (English, Physics, Chemistry, Mathematics, General Test) For 2025 Exam** Oswaal Editorial Board, 2024-09-05

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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

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the world renowned National Strength and Conditioning Association NSCA's Guide to High School Strength and Conditioning summarizes the primary duties and responsibilities of the various positions and roles that contribute to developing a safe and effective program. It provides insights into the benefits of offering a strength and conditioning program at the high school level and offers advice for the implementation of such a program. Examples are also provided for strength and conditioning related PE curriculums to demonstrate how those types of programs can work and how they connect to the SHAPE America national standards and grade level outcomes. The text is loaded with information that can be practically applied to any high school program. You will learn the variables to consider when designing a resistance or cardiovascular training program and 13 detailed protocols for conducting assessments so you can objectively evaluate movement and performance. Detailed exercise descriptions include beginning position, movement phases, breathing guidelines, modifications and variations, and coaching tips. The descriptions along with accompanying photos teach proper technique for 28 common resistance training exercises: 10 bodyweight exercises, 12 anatomical core exercises, 11 static and dynamic stretching exercises, 12 plyometric exercises, 10 speed and agility drills, and 5 cardio machines. Sample warm up sequences and exercise sessions for resistance, plyometric, speed and agility, cardiovascular, and circuit training are also provided, all of which follow the programming guidelines and recommendations for high school student athletes. NSCA's Guide to High School Strength and Conditioning includes the evidence driven information that will help any high school strength and conditioning professional, including both coaches and teachers, to become the best practitioner possible. This valuable resource is one that you will turn to for many years to come as you build a solid strength and conditioning community for your student athletes. Earn continuing education credits. A continuing education course and exam that uses this book is also available. It may be purchased separately or as part of a package that includes all the course materials and exam.

Landfalling tropical cyclones: physical processes, forecasting and impacts Yihong Duan, Qingqing Li, Guanghua Chen, Hui Yu, Da-Lin Zhang, Kun Zhao, 2022-12-29

Emerging Practices for Online Language Assessment, Exams, Evaluation, and Feedback Gokturk-Saglam, Asli Lidice, Sevgi-Sole, Ece, 2023-06-29

The advancement of digital tools has enabled the development of online language assessments, exams, evaluations, and feedback. Nonetheless, the language assessment literacy required of a teacher today is of a completely different kind, one that is adapted to the digital environment and altered for the pedagogical approaches of our new norm. There is a scarcity of literature addressing the challenges of in-person to online assessments, exams, evaluations, and feedback, particularly in the time of the COVID-19 education crisis. *Emerging Practices for Online Language Assessment, Exams, Evaluation, and Feedback* investigates the main challenges of online language assessment when migrating from an in-class to an online environment due to academic integrity, adaptation to the new testing environment, technical problems, and anxiety. Covering key topics such as parental involvement, self-assessment, and language learners, this premier reference source is ideal for administrators, policymakers, industry professionals, researchers, academicians, scholars, practitioners, instructors, and

students Encyclopedia of Mathematical Geosciences B. S. Daya Sagar, Qiuming Cheng, Jennifer McKinley, Frits Agterberg, 2023-07-13 The Encyclopedia of Mathematical Geosciences is a complete and authoritative reference work It provides concise explanation on each term that is related to Mathematical Geosciences Over 300 international scientists each expert in their specialties have written around 350 separate articles on different topics of mathematical geosciences including contributions on Artificial Intelligence Big Data Compositional Data Analysis Geomathematics Geostatistics Geographical Information Science Mathematical Morphology Mathematical Petrology Multifractals Multiple Point Statistics Spatial Data Science Spatial Statistics and Stochastic Process Modeling Each topic incorporates cross referencing to related articles and also has its own reference list to lead the reader to essential articles within the published literature The entries are arranged alphabetically for easy access and the subject and author indices are comprehensive and extensive *The Online Classroom* Brooke B. Eisenbach, Paula Greathouse, 2018-11-01 The world of middle level education is rapidly evolving Increasingly online learning platforms are complementing or replacing traditional classroom settings As students exchange classroom interaction for online collaboration pencils for keyboards face to face conversations for chat room texts and traditional lessons for digital modules it becomes apparent that teachers schools and administrators must identify ways to keep pace We must identify ways to meet the needs of middle level learners within this digital context In this volume researchers and teachers share a variety of resources centered on the growing world of virtual education and its implications for the middle level learner educator and classroom **POGIL** Shawn R. Simonson, 2023-07-03 Process Oriented Guided Inquiry Learning POGIL is a pedagogy that is based on research on how people learn and has been shown to lead to better student outcomes in many contexts and in a variety of academic disciplines Beyond facilitating students mastery of a discipline it promotes vital educational outcomes such as communication skills and critical thinking Its active international community of practitioners provides accessible educational development and support for anyone developing related courses Having started as a process developed by a group of chemistry professors focused on helping their students better grasp the concepts of general chemistry The POGIL Project has grown into a dynamic organization of committed instructors who help each other transform classrooms and improve student success develop curricular materials to assist this process conduct research expanding what is known about learning and teaching and provide professional development and collegiality from elementary teachers to college professors As a pedagogy it has been shown to be effective in a variety of content areas and at different educational levels This is an introduction to the process and the community Every POGIL classroom is different and is a reflection of the uniqueness of the particular context the institution department physical space student body and instructor but follows a common structure in which students work cooperatively in self managed small groups of three or four The group work is focused on activities that are carefully designed and scaffolded to enable students to develop important concepts or to deepen and refine their understanding of those ideas or concepts for themselves based entirely on

data provided in class not on prior reading of the textbook or other introduction to the topic The learning environment is structured to support the development of process skills such as teamwork effective communication information processing problem solving and critical thinking The instructor s role is to facilitate the development of student concepts and process skills not to simply deliver content to the students The first part of this book introduces the theoretical and philosophical foundations of POGIL pedagogy and summarizes the literature demonstrating its efficacy The second part of the book focusses on implementing POGIL covering the formation and effective management of student teams offering guidance on the selection and writing of POGIL activities as well as on facilitation teaching large classes and assessment The book concludes with examples of implementation in STEM and non STEM disciplines as well as guidance on how to get started Appendices provide additional resources and information about The POGIL Project

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weight of the final product project duration or monetary value with the nature of steel fabrication being labor intensive man hours are normally used as the major input for the steel fabrication processes dozzi and abourizk 1993 the other resources such as labor equipment and overhead costs are also closely correlated to man hours

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2.6 fabrication related activities structural steel arrives at the job site as a fabricated ready to assemble product however prior to delivering the steel to the project site a considerable amount of activity is undertaken by the steel fabricator steel contractor the fabricator has the following primary responsibilities as identified

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