

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 with constant velocity through the air.
 C An object moves with constant velocity through the air.
 D An object moves with 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 speed increases.
 D increases as the object's acceleration 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 14 of his weight (E_E) on the surface of the Earth?
- A r
 B $2r$
 C $3r$
 D $4r$

- 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

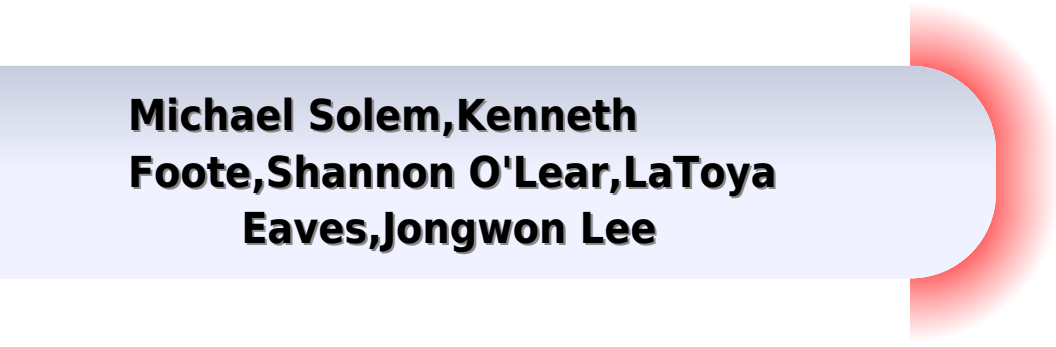


C: $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$

- 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 Level 4 November 2013 Question Paper

**Michael Solem, Kenneth
Foote, Shannon O'Lear, LaToya
Eaves, Jongwon Lee**



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TELANGANA TSPSC UTTARAKHAND UKPSC WEST BENGAL WBPSC Indian Polity Laxmikant Indian Economy Ramesh Singh Geography Majid Hussain Ecology Shankar general Studies Manual Lucent GK *Flooding and Management of Large Fluvial Lowlands* Paul F. Hudson,2021-11-25 Pressure on large fluvial lowlands has increased tremendously during the past twenty years because of flood control urbanization and increased dependence upon floodplains and deltas for food production This book examines human impacts on lowland rivers and discusses how these changes affect different types of riverine environments and flood processes Surveying a global range of large rivers it provides a primary focus on the lower Rhine River in the Netherlands and the Lower Mississippi River in Louisiana A particular focus of the book is on geo engineering which is described in a straight forward writing style that is accessible to a broad audience of advanced students researchers and practitioners in global environmental change fluvial geomorphology and sedimentology and flood and water management *Opportunities for Environmentally Healthy, Inclusive, and Resilient Growth in Mexico's Yucatán Peninsula* Ernesto Sánchez-Triana,Jack Ruitenbeek,Santiago Enriquez,Katharina Siegmann,2019-12-30 Approximately 4.1 million people live in the three states of the Yucatán Peninsula Quintana Roo Yucatán and Campeche Some 30 municipalities are in a coastal territory of almost 2 000 linear kilometers from the oil fields of the Gulf of Mexico to the world renowned beaches of Cancún just north of the second largest barrier reef in the world The peninsula's natural assets also include notable Mayan temples With poverty far from eliminated and with economic development opportunities beckoning in agriculture manufacturing and hydrocarbon development the region is under growing risks from environmental hazards Oil spills hurricanes coral bleaching extreme flooding and erosion have all been experienced in this region over the past decade Based on preliminary identification of environmental priorities *Opportunities for Environmentally Healthy Inclusive and Resilient Growth in Mexico's Yucatán Peninsula* explores selected topics that aim to inform decision making in the region A general context of integrated coastal zone management is used to explore issues constraints and potential solutions and the role of geomorphology is examined with a view to identifying how shore management plans can contribute to improved coastal management Economic studies find that the main environmental health risks in the peninsula result in more than 1 000 premature deaths every year and in more than 9.36 million days lost to illnesses These risks generate substantial economic

losses representing 2.23 percent of gross regional income Scenarios relating to the economic cost of extreme weather events generate similar levels of damages 1.415 percent of GDP in 2020 and 1.623 percent of GDP in 2050 A social accounting matrix examines the social and environmental interconnectedness to the various parts of the economy and an institutional analysis considers the mandates of existing institutions in the states and of the contribution that regulatory measures may make to environmentally sustainable development without undermining economic growth prospects

The Water Will Come Jeff Goodell, 2017-10-24 What if Atlantis wasn't a myth but an early precursor to a new age of great flooding Across the globe scientists and civilians alike are noticing rapidly rising sea levels and higher and higher tides pushing more water directly into the places we live from our most vibrant historic cities to our last remaining traditional coastal villages With each crack in the great ice sheets of the Arctic and Antarctica and each tick upwards of Earth's thermometer we are moving closer to the brink of broad disaster By century's end hundreds of millions of people will be retreating from the world's shores as our coasts become inundated and our landscapes transformed From island nations to the world's major cities coastal regions will disappear Engineering projects to hold back the water are bold and may buy some time Yet despite international efforts and tireless research there is no permanent solution no barriers to erect or walls to build that will protect us in the end from the drowning of the world as we know it The Water Will Come is the definitive account of the coming water why and how this will happen and what it will all mean As he travels across twelve countries and reports from the front lines acclaimed journalist Jeff Goodell employs fact science and first person on the ground journalism to show vivid scenes from what already is becoming a water world An immersive mildly gonzo and depressingly well timed book about the drenching effects of global warming and a powerful reminder that we can bury our heads in the sand about climate change for only so long before the sand itself disappears Jennifer Senior New York Times

Proceedings of the 2013 International Conference on Material Science and Environmental Engineering-2013 Dr. Qingzhou Xu, 2013-09-05 MSEE2013 will provide an excellent international academic forum for sharing knowledge and results in theory methodology and applications on material science and environmental engineering In the proceedings you can learn much more knowledge about the newest research results on material science and advanced materials material engineering and application environment protection and sustainable development and environmental science and engineering all around the world

ISTFA 2013 A. S. M. International, 2013-01-01 This volume features the latest research and practical data from the premier event for the microelectronics failure analysis community The papers cover a wide range of testing and failure analysis topics of practical value to anyone working to detect understand and eliminate electronic device and system failures

Observational Assessments of Glacier Mass Changes at Regional and Global Level Michael Zemp, Matthias Holger Braun, Fanny Brun, Laura Thomson, 2021-03-26

Anthropocene Erle C. Ellis, 2018-03-12 The proposal that the impact of humanity on the planet has left a distinct footprint even on the scale of geological time has recently gained much ground

Global climate change shifting global cycles of the weather widespread pollution radioactive fallout plastic accumulation species invasions the mass extinction of species these are just some of the many indicators that we will leave a lasting record in rock the scientific basis for recognizing new time intervals in Earth's history The Anthropocene as the proposed new epoch has been named is regularly in the news Even with such robust evidence the proposal to formally recognize our current time as the Anthropocene remains controversial both inside and outside the scholarly world kindling intense debates The reason is clear The Anthropocene represents far more than just another interval of geologic time Instead the Anthropocene has emerged as a powerful new narrative a concept through which age old questions about the meaning of nature and even the nature of humanity are being revisited and radically revised This Very Short Introduction explains the science behind the Anthropocene and the many proposals about when to mark its beginning the nuclear tests of the 1950s The beginnings of agriculture The origins of humans as a species Erle Ellis considers the many ways that the Anthropocene's evolving paradigm is reshaping the sciences stimulating the humanities and foregrounding the politics of life on a planet transformed by humans The Anthropocene remains a work in progress Is this the story of an unprecedented planetary disaster Or of newfound wisdom and redemption Ellis offers an insightful discussion of our role in shaping the planet and how this will influence our future on many fronts ABOUT THE SERIES The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area These pocket sized books are the perfect way to get ahead in a new subject quickly Our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable

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Pettitt,2020-06-04 *Serial Forms The Unfinished Project of Modernity 1815 1848* proposes an entirely new way of reading the transition into the modern It is the first book in a series of three which will take the reader up to the end of the First World War moving from a focus on London to a global perspective *Serial Forms* sets out the theoretical and historical basis for all three volumes It suggests that as a serial news culture and a stadial historicism developed together between 1815 and 1848 seriality became the dominant form of the nineteenth century Through serial newsprint illustrations performances and shows the past and the contemporary moment enter into public visibility together *Serial Forms* argues that it is through seriality that the social is represented as increasingly politically urgent The insistent rhythm of the serial reorganizes time recalibrates and rescales the social and will prepare the way for the 1848 revolutions which are the subject of the next book By placing their work back into the messy print and performance culture from which it originally appeared *Serial Forms* is able to produce new and exciting readings of familiar authors such as Scott Byron Dickens and Gaskell Rather than offering a rarefied intellectual history or chopping up the period into Romantic and Victorian Clare Pettitt tracks the development of communications technologies and their impact on the ways in which time history and virtuality are imagined *Thriving in an Academic Career* Michael Solem,Kenneth Foote,Shannon O'Lear,LaToya Eaves,Jongwon Lee,2024-12-30 This book provides an invaluable guide on how to achieve a successful and fulfilling academic career Academics must balance multiple roles and responsibilities between teaching research and offering services to the department university and broader community This book provides practical research based guidance on how to adopt a healthy and balanced perspective that accounts for these interconnections Research shows that faculty who achieve early balance in their academic responsibilities and home life are more likely to succeed in all aspects of their career while strengthening the quality and climate of their programs and campuses This book s chapters accordingly feature case studies and examples that dig deeper into strategies and principles of holistic and balanced career practice and planning This book assists readers in understanding the relationships between their individual talents as teachers and scholars the obligations of their department as a community nested with others contributing to the university mission and the role and responsibility of their university and discipline in the wider society The themes of balance and harmony underpin this book s approach to faculty development *Thriving in an Academic Career* is for anyone beginning their academic career in geography and related social and environmental sciences at all types of higher education institutions This book will be of particular interest to graduate students and early career faculty in geography and nearby social environmental and natural sciences **Quantization, Coherent States, and Complex Structures** J-P Antoine,S.T. Ali,W. Lisiecki,I.M. Mladenov,Anatol Odziejewicz,2013-06-29 The XIIIth Bialowieza Summer Workshop was held from July 9 to 15 1994 While still within the general framework of Differential Geometric Methods in Physics the XnIth Workshop was expanded in scope to include quantum groups q deformations and non commutative geometry It is expected that lectures on these topics will now become an integral part of future workshops In

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Rao,2013-03-09 Over the past decade rational agency has come to be recognised as a central theme in artificial intelligence Drawing upon research on rational action and agency in philosophy logic game theory decision theory and the philosophy of language this volume represents an advanced comprehensive state of the art survey of the field of rational agency as it stands today It covers the philosophical foundations of rational agency logical and decision theoretic approaches to rational agency multi agent aspects of rational agency including speech acts joint plans and cooperation protocols and finally describes a number of approaches to programming rational agents Although written from the standpoint of artificial intelligence this interdisciplinary text will be of interest to researchers in logic mainstream computer science the philosophy of rational action and agency and economics **Fundamentals of Management in Physical Therapy** Jennifer E.

Green-Wilson,2025-05-02 Fundamentals of Management in Physical Therapy A Roadmap for Intention and Impact helps to strengthen the development of transferable management skills and pragmatic business knowledge for physical therapists This book will help physical therapist students academic faculty clinical faculty adjunct faculty and clinicians learn how to manage effectively at all levels and in a variety of diverse settings within the profession of physical therapy and within health care teams organizations Learners have multiple opportunities to reflect upon and apply practical and relevant information to build fundamental management skills that translate across settings The book is a resource to help physical therapist assistants as students and as practitioners manage up and across and to strengthen their ability to leverage high performing teams and value based care **Social Psychology Australian & New Zealand Edition** Saul Kassin,Steven Fein,Hazel

Rose Markus,Kerry Anne McBain,Lisa Williams,2019-08-01 Using a balanced approach Social Psychology 2e connects social psychology theories research methods and basic findings to real world applications with a current events emphasis Coverage of culture and diversity is integrated into every chapter in addition to strong representation throughout of regionally relevant topics such as Indigenous perspectives environmental psychology and conservation community psychology gender identity and attraction and close relationships including same sex marriage in different cultures gendered behaviours when dating and updated data on online dating making this visually engaging textbook useful for all social psychology students

Irrigation and Drainage Muhammad Sultan, Fiaz Ahmad, 2023-01-18 Uneven distribution and depletion of good quality water reserves significantly devastate the agriculture sector. In this scenario, water management as well as efficient irrigation and drainage strategies are primarily required to conserve water resources and enhance farm efficiency. Irrigation and Drainage: Recent Advances provides insights into irrigation methods, scheduling possibilities, and optimal irrigation frequencies. It also discusses management strategies including methods of groundwater recharging and rainwater harvesting, restoration and modification of drainage networks for manifesting the cropping index. The book presents key aspects and examines the role of Agrovoltaic energy, artificial intelligence, and the Internet of Things (IoT) in the development of smart irrigation systems for sustainable farming.

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[web biography thomas a pugel](#) joined the faculty of new york university in 1978 he received his b a in economics from michigan state university in 1974 and his ph d in economics from harvard university in 1978 at the nyu stern school of business he served as vice dean for mba programs and for executive programs during 2009 2016 as faculty

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