



GRADE 10 PHYSICAL SCIENCES

NOVEMBER EXAMINATION PAPER 2: CHEMISTRY

SECTION A

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 in your answer book.

1.1 Which of the following is an example of a mixture?

- A distilled water
- B diamond
- C sodium chloride
- D syngas

1.2 Element with the electron configuration $1s^2, 2s^2, 2p^4$

- A oxygen
- B carbon
- C helium
- D nitrogen

1.3 The chemical formula of sodium sulfide

- A NaS
- B Na_2S
- C NaS_2
- D Na_2S_2

1.4 Strongest intermolecular force found in water?

- A ion-dipole
- B Dipole-dipole
- C Van der Waals
- D Hydrogen bond

1.5 The particles of a gas ...

- A are tightly packed
- B vibrate against each other
- C move freely and rarely touch
- D move over one another

1.6 Element with the highest electronegativity?

- A Hydrogen
- B Helium
- C Oxygen
- D Fluorine

1.7 When an atom of Group 16 ionises to become an ion, the

- A mass number of the atom will increase
- B atomic number of the atom will decrease
- C number of electrons will decrease
- D number of electrons will increase

1.8 An element with the following Aufbau diagram will be classified as a

$1s^2$	2s
$2s^2 2p^4$	3s
$3s^2$	3p
$3d^5$	4s

- A noble gas
- B halogen
- C alkali earth metal
- D alkali metal

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ICT and Society Kai Kimppa, Diane Whitehouse, Tiina Kuusela, Jackie Phahlamohlaka, 2014-07-25 This book constitutes the refereed proceedings of the 11th IFIP TC 9 International Conference on Human Choice and Computers HCC11 2014 held in Turku Finland in July August 2014 The 29 revised full papers presented were carefully reviewed and selected from numerous submissions The papers are based on both academic research and the professional experience of information technologists working in the field They have been organized in the following topical sections society social responsibility ethics and ICT the history of computing and its meaning for the future peace war cyber security and ICT and health care well being and ICT

The Age of Scientific Naturalism Bernard Lightman, Michael S. Reidy, 2016-02-19 Physicist John Tyndall and his contemporaries were at the forefront of developing the cosmology of scientific naturalism during the Victorian period They rejected all but physical laws as having any impact on the operations of human life and the universe Contributors focus on the way Tyndall and his correspondents developed their ideas through letters periodicals and scientific journals and challenge previously held assumptions about who gained authority and how they attained and defended their position within the scientific community

SOUVENIR of 2nd International Science Congress (ISC-2012) Prof. Dipak Sharma, The International Science Congress Association organized the 2nd International Science Congress ISC 2012 with Science and Technology Challenges of 21st Century as its focal theme ISC 2012 was divided in 20 sections A total number of 800 Research Papers and 1200 registrations from 23 countries all over the world have been received They was mainly from Bangladesh Bulgariya Cameroun France Greece Iran Iraq Kazakhstan Korea Lithuania Malaysia Nigeria Nepal Phillipines Pakistan Poland Romania Slovakiya USA Ukraine Venezuela Turkey and India

What We Think About When We Try Not To Think About Global Warming Per Espen Stoknes, 2015 Today about 98 percent of scientists affirm that climate change is human made and about 2 percent still question it Despite that overwhelming majority though about half the population of rich countries like ours choose to believe the 2 percent And paradoxically this large camp of deniers grows even larger as more and more alarming proof of climate change has cropped up over the last decades This disconnect has both climate scientists and activists scratching their heads growing anxious and responding usually by repeating more facts to win the argument But the more climate facts pile up the greater the resistance to them grows and the harder it becomes to enact measures to reduce greenhouse gas emissions and prepare communities for the inevitable change ahead Is humanity up to the task It is a catch 22 that starts says psychologist and climate expert Per Espen Stoknes from an inadequate understanding of the way most humans think act and live in the world around them With dozens of examples he shows how to retell the story of climate change and apply communication strategies more fit for the task Publisher's description

November 2019 Monthly Current Affairs with MCQs for Competitive Exams Disha Experts, 2019-10-21 **Global Issues** Kristen A. Hite, John L. Seitz, 2021-01-05 An introduction to the most important issues facing an increasingly

globalized world with this thoroughly updated and revised sixth edition *Global Issues* is an accessible wide ranging introduction to the major environmental and development issues confronting the modern world Spanning disciplines such as political science economics sociology ecology international relations and development studies this popular textbook enables students to develop a broad perspective on the relationships between nations society corporations and the environment in various contexts Exploring issues surrounding wealth poverty inequality climate change natural resources pollution technology and others the text illustrates the importance of global solutions to the issues facing increasingly interdependent nations around the world This sixth edition has been extensively revised to ensure contemporary relevance featuring updated case studies and compelling research on food security poverty and the impact of climate change on development New discussions explore energy the UN Sustainable Development Goals differences in the social and economic conditions of rich and poor countries and environmental trends Providing an integrated multidisciplinary perspective this unique text Examines the intersection of development inequality environment and society Covers topically relevant issues such as population growth shifting demographics renewable energy and the threats that development poses to the environment Discusses possible future scenarios and governance concerns related to global issues Explores shifts in traditional development pathways and policies around the world *Global Issues An Introduction Sixth Edition* is an ideal entry level textbook for a range of courses including global studies international studies environmental studies geography politics sociology sustainable development and more

The Secure and the Dispossessed Nick Buxton, Ben Hayes, 2015-11-20 While the world's scientists and many of its inhabitants despair at the impact of climate change corporate and military leaders see nothing but opportunities For them melting ice caps mean newly accessible fossil fuels borders to be secured from climate refugees social conflicts to be managed and more failed states in which to intervene They are securing their assets at the expense of the planet and its inhabitants *The Secure and the Dispossessed* looks at these deadly approaches with a critical eye It also considers the flip side that the legitimacy of the elite is under unprecedented pressure from resistance by communities to resource grabs to those creating new ecological and socially just models for managing our energy food and water Topics covered include geoengineering militarism refugee protection greenwashing and the agricultural crisis among others Adaptation and resilience to a climate changed world is desperately needed but the form it will take will affect all of our futures

Ocean Law Debates Harry N. Scheiber, Nilufer Oral, Moon-Sang Kwon, 2018-07-17 The UN Convention on the Law of the Sea UNCLOS signed in 1982 and going into force in 1994 was the product of intensive international debates from the 1950s onward UNCLOS continues to be the subject of vital debates on new initiatives that seek to clarify or expand the scope of the ocean regime In *Ocean Law Debates The 50 Year Legacy and Emerging Issues for the Years Ahead* distinguished authors analyze the content of these debates providing both historical perspectives and keen analyses of present day issues Several chapters focus on the contributions to debates over half a century's time by the Law of the Sea Institute including the

controversies involving maritime delimitation issues creation of marine fisheries law and responses to the manifold challenges posed by dramatic advances in science and technology Complementing these historical perspectives a section of five chapters offers critical discussion of today's movement to create a regime to sustain biodiversity in the Area Beyond National Jurisdiction Finally the volume offers diverse perspectives on the implementation and judicial interpretation of UNCLOS international whaling regulation Arctic regional issues seabed mining problems the geopolitics of Marine Protected Area declarations and the role of the IMO in responding to climate change

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

Equity for Women in Science Cassidy R. Sugimoto, Vincent Larivière, 2023-03-21 Equity for Women in Science is the first large scale empirical study of the global gender gap in science Analyzing millions of scientific papers the authors show that women are undervalued for their labor in science as measured through publications and citations The data also reveal how the scientific community can promote equity

Handbook of the Politics of the Arctic Leif Christian Jensen, Geir Hønneland, 2015-09-25 The Arctic has again become one of the leading issues on the international foreign policy agenda in a manner unseen since the Cold War Drawing on the perspectives of geopolitics and international law this Handbook offers fresh insights and perspectives on the most pressing issues grouped under the headings of political ascendancy climate and environmental issues resources and energy and the response and policies of affected countries

Offshore Drilling Platforms JOB INTERVIEW Petrogav International Oil & Gas Training Center, 2020-06-28 The job interview is probably the most important step you will take in your job search journey Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 273 questions and answers for job interview and as a BONUS 205

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Security Beyond the State Claudia Morsut,Daniela Irrera,2018-06-11 Which is the role of the European Union in dealing with crises that go beyond the nation states borders terrorism proliferation of weapons of mass destruction regional conflicts state failure organised crime natural and man made disasters The authors assess the main challenge for the EU the need to operate in a multidimensional setting where with a wide range of actors such as member states national and international NGOs international organisations NATO and the UN in primis as well as a wide range of activities rules and

norms are generated for these diversified crises **Sustainable Green Technologies for Environmental Management**

Shachi Shah,V. Venkatramanan,Ram Prasad,2019-02-19 Our Earth is considered as a natural system which organizes and controls itself However the present scale of anthropogenic activity is unprecedented in the history of mankind compelling the intelligentsia to ponder over the scientific causes of the problems processes and sustainable and pragmatic solutions The current rate of resource use and consumption pattern are depleting the planet s finite resources and damaging life supporting ecosystems A large number of toxic substances are increasingly found in air water soil and flora and fauna We are in the midst of a period of increasing interconnected and complex global challenges that seek action across temporal and spatial scales diverse sectors and concerted efforts from global citizens The environment on account of human s action has been experiencing imbalances and ecological catastrophe Environmental issues like global climate change biodiversity loss the rapid depletion of natural resources degradation of global commons stratospheric ozone depletion have been restricting the safe operating space and transgressing the planetary boundaries endangering the existence of human societies The global environmental problems if not scientifically managed may end up in the civilizational collapse Nevertheless the underlying commonality among these environmental issues is interrelatedness complexity and difficulty in identifying and implementing solutions The global environmental challenges can be managed by adopting sustainable green technologies which dovetails the principles of environmental sustainability with social and ecological sustainability Green growth is construed as a new development paradigm that sustains economic growth while at the same time ensuring environmental sustainability **Routledge International Handbook of Sustainable Development** Michael Redclift,Delyse

Springett,2015-03-02 This Handbook gives a comprehensive international and cutting edge overview of Sustainable Development It integrates the key imperatives of sustainable development namely institutional environmental social and economic and calls for greater participation social cohesion justice and democracy as well as limited throughput of materials and energy The nature of sustainable development and the book s theorization of the concept underline the need for interdisciplinarity in the discourse as exemplified in each chapter of this volume The Handbook employs a critical framework that problematises the concept of sustainable development and the struggle between discursivity and control that has characterised the debate It provides original contributions from international experts coming from a variety of disciplines and regions including the Global South Comprehensive in scope it covers amongst other areas Sustainable architecture and design Biodiversity Sustainable business Climate change Conservation Sustainable consumption De growth Disaster management Eco system services Education Environmental justice Food and sustainable development Governance Gender Health Indicators for sustainable development Indigenous perspectives Urban transport The Handbook offers researchers and students in the field of sustainable development invaluable insights into a contested concept and the alternative worldviews that it has fostered **Training for job interview Offshore Oil & Gas Platforms** Petrogav International Oil &

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