Grade 12		
	PHYSICAL SCIENCES - CONTROL TEST	
Time: 40 minutes	Marks: 50	

QUESTION 1

There are four possible options for each answer in the following questions. Each question has only ONE correct answer. Choose the correct answer and write only A, B, C or D next to the question number.

1.1 Consider the following two balanced chemical equations.

SO ₂ (g)	*	2H ₂ S (g)	0	3S (s)	+	2H ₂ O (I)
SO ₂ (g)	+	Mg (s)	0	S (s)	+	2MgO (s)

The reducing agent(s) in these two reactions is (are) ...

- A only SO₂
- B SO₂ and Mg
- C H₂S and Mg
- D SO₂ and H₂S
 - (20)
- 1.2 Different structural forms of the same compound are ...
 - A isotopes
 - B isobars
 - allotropes
 - D isomers
 - (2)

[4]

QUESTION 2

Give one word or term for each of the following descriptions. Write only the word or term next to the question number.

- 2.1 The gain of electrons by an atom, ion or molecule
 - (1)

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Clinical Imaging Physics Ehsan Samei, Douglas E. Pfeiffer, 2020-06-30 Clinical Medical Imaging Physics Current and Emerging Practice is the first text of its kind a comprehensive reference work covering all imaging modalities in use in clinical medicine today Destined to become a classic in the field this book provides state of practice descriptions for each imaging modality followed by special sections on new and emerging applications technologies and practices Authored by luminaries in the field of medical physics this resource is a sophisticated one volume handbook to a fast advancing field that is becoming ever more central to contemporary clinical medicine Summarizes the current state of clinical medical imaging physics in one volume with a focus on emerging technologies and applications Provides comprehensive coverage of all key clinical imaging modalities taking into account the new realities in healthcare practice Features a strong focus on clinical application of principles and technology now and in the future Contains authoritative text compiled by world renowned editors and contributors responsible for guiding the development of the field Practicing radiologists and medical physicists will appreciate Clinical Medical Imaging Physics as a peerless everyday reference work Additionally graduate students and residents in medical physics and radiology will find this book essential as they study for their board exams Science Under Microgravity: Experiments on Board the SJ-10 Recoverable Satellite Wenrui Hu, Qi Kang, 2019-10-16 This book presents the physical science experiments in a space microgravity environment conducted on board the SJ 10 recoverable satellite which was launched on April 6th 2016 and recovered on April 18th 2016 The experiments described were selected from 100 proposals from various institutions in China and around the world and have never previously been conducted in the respective fields They involve fluid physics and materials science and primarily investigate the kinetic properties of matter in a space microgravity environment The book provides a comprehensive review of these experiments as well as the mission s execution data collection and scientific outcomes Final Report of the Committee on a Strategic Plan for U.S. Burning <u>Plasma Research</u> National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Board on Physics and Astronomy, Committee on a Strategic Plan for U.S. Burning Plasma Research, 2019-07-01 Fusion offers the prospect of virtually unlimited energy The United States and many nations around the world have made enormous progress toward achieving fusion energy With ITER scheduled to go online within a decade and demonstrate controlled fusion ten years later now is the right time for the United States to develop plans to benefit from its investment in burning plasma research and take steps to develop fusion electricity for the nation s future energy needs At the request of the Department of Energy the National Academies of Sciences Engineering and Medicine organized a committee to develop a strategic plan for U S fusion research The final report s two main recommendations are 1 The United States should remain an ITER partner as the most cost effective way to gain experience with a burning plasma at the scale of a power plant 2 The United States should start a national program of accompanying research and technology leading to the construction of a

compact pilot plant that produces electricity from fusion at the lowest possible capital cost September 2019 Monthly Current Affairs with MCQs for Competitive Exams Disha Experts,2019-09-01 Peterson's Graduate Programs in the Physical Sciences, Mathematics, Agricultural Sciences, the Environment & Natural Resources 2012

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Climate Change 2021 - The Physical Science Basis Intergovernmental Panel on Climate Change (IPCC), 2023-07-26 The Working Group I contribution to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change IPCC provides a comprehensive assessment of the physical science basis of climate change It considers in situ and remote observations paleoclimate information understanding of climate drivers and physical chemical and biological processes and feedbacks global and regional climate modelling advances in methods of analyses and insights from climate services It assesses the current state of the climate human influence on climate in all regions future climate change including sea level rise global warming effects including extremes climate information for risk assessment and regional adaptation limiting climate change by reaching net zero carbon dioxide emissions and reducing other greenhouse gas emissions and benefits for air quality The report serves policymakers decision makers stakeholders and all interested parties with the latest policy relevant information on climate change Available as Open Access on Cambridge Core October 2019 Monthly Current Affairs with MCQs for Competitive Exams Disha Experts, 2019-09-25 August 2019 Monthly Current Affairs with MCQs for Competitive Exams Disha Experts, 2019-08-04 Pharmaceutical Dissolution Testing, Bioavailability, and **Bioequivalence** Umesh V. Banakar, 2022-01-19 Explore the cutting edge of dissolution testing in an authoritative one stop resource In Pharmaceutical Dissolution Testing Bioavailability and Bioequivalence Science Applications and Beyond distinguished pharmaceutical advisor and consultant Dr Umesh Banakar delivers a comprehensive and up to date reference

covering the established and emerging roles of dissolution testing in pharmaceutical drug development After discussing the fundamentals of the subject the included resources go on to explore common testing practices and methods along with their associated challenges and issues in the drug development life cycle Over 19 chapters and 1100 references allow practicing scientists to fully understand the role of dissolution apart from mere quality control Readers will discover a wide range of topics including automation generic and biosimilar drug development patents and clinical safety This volume offers a one stop resource for information otherwise scattered amongst several different regulatory regimes It also includes A thorough introduction to the fundamentals and essential applications of pharmaceutical dissolution testing Comprehensive explorations of the foundations and drug development applications of bioavailability and bioequivalence Practical discussions about solubility dissolution permeability and classification systems in drug development In depth examinations of the mechanics of dissolution including mathematical models and simulations An elaborate assessment of biophysiologically relevant dissolution testing and IVIVCs and their unique applications A complete understanding of the methods requirements and global regulatory expectations pertaining to dissolution testing of generic drug products Ideal for drug product development and formulation scientists quality control and assurance professionals and regulators Pharmaceutical Dissolution Testing Bioavailability and Bioequivalence is also the perfect resource for intellectual property assessors List of English-translated Chinese standards □GB/T□ https://www.codeofchina.com, HTTPS WWW CODEOFCHINA COM EMAIL COC CODEOFCHINA COM Codeofchina Inc a part of TransForyou Beijing Translation Co Ltd is a professional Chinese code translator in China Now Codeofchina Inc is running a professional Chinese code website www codeofchina com Through this website Codeofchina Inc provides English translated Chinese codes to clients worldwide About TransForyou TransForyou Beijing Translation Co Ltd established in 2003 is a reliable language service provider for clients at home and abroad Since our establishment TransForyou has been aiming to build up a translation brand with our professional dedicated service Currently TransForyou is the director of China Association of Engineering Construction Standardization CECS the committeeman of Localization Service Committee Translators Association of China TAC and the member of Boya Translation Culture Salon BTCS and the field study center of the University of the University of International Business Economics UIBE and Hebei University HU In 2016 TransForyou ranked 27th among Asian Language Service Providers by Common Sense The Chemical News and Journal of Physical Science, 1887 Advisory Scientific and Technical Aerospace Reports .1971 Current Progress in Biochemical, Biomedical, and Physical Sciences Saurabh Basu, A. S. Achalkumar, Subrata Pramanik, Lalit M. Pandey, 2025-10-22 This book presents the proceedings of the 9th edition of Research and Industrial Conclave RIC 2024 held at the Indian Institute of Technology IIT Guwahati from 9 to 11 August 2024 It features a diverse collection of peer reviewed research articles highlighting emerging trends and application oriented studies across a broad spectrum of science and technology domains Broadly this book features research in Chemistry Physics

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cutting edge methods of rock art analysis for the student and professional researcher alike World Congress on Medical Physics and Biomedical Engineering, June 7-12, 2015, Toronto, Canada David A. Jaffray, 2015-07-13 This book presents the proceedings of the IUPESM World Biomedical Engineering and Medical Physics a tri annual high level policy meeting dedicated exclusively to furthering the role of biomedical engineering and medical physics in medicine The book offers papers about emerging issues related to the development and sustainability of the role and impact of medical physicists and biomedical engineers in medicine and healthcare It provides a unique and important forum to secure a coordinated multileveled global response to the need demand and importance of creating and supporting strong academic and clinical teams of biomedical engineers and medical physicists for the benefit of human health A Midterm Assessment of Implementation of the Decadal Survey on Life and Physical Sciences Research at NASA National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Space Studies Board, Aeronautics and Space Engineering Board, Committee on a Midterm Assessment of Implementation of the Decadal Survey on Life and Physical Sciences Research at NASA, 2018-06-09 The 2011 National Research Council decadal survey on biological and physical sciences in space Recapturing a Future for Space Exploration Life and Physical Sciences Research for a New Era was written during a critical period in the evolution of science in support of space exploration. The research agenda in space life and physical sciences had been significantly descoped during the programmatic adjustments of the Vision for Space Exploration in 2005 and this occurred in the same era as the International Space Station ISS assembly was nearing completion in 2011 Out of that period of change Recapturing a Future for Space Exploration presented a cogent argument for the critical need for space life and physical sciences both for enabling and expanding the exploration capabilities of NASA as well as for contributing unique science in many fields that can be enabled by access to the spaceflight environment Since the 2011 publication of the decadal survey NASA has seen tremendous change including the retirement of the Space Shuttle Program and the maturation of the ISS NASA formation of the Division of Space Life and Physical Sciences Research and Applications provided renewed focus on the research of the decadal survey NASA has modestly regrown some of the budget of space life and physical sciences within the agency and engaged the U S science community outside NASA to join in this research In addition NASA has collaborated with the international space science community This midterm assessment reviews NASA s progress since the 2011 decadal survey in order to evaluate the high priority research identified in the decadal survey in light of future human Mars exploration It makes recommendations on science priorities specifically those priorities that best Handbook of Military Psychology Stephen V. Bowles, Paul T. Bartone, 2017-12-05 This enable deep space exploration expert compendium surveys the current state of military psychology across the branches of service at the clinical research consulting and organizational levels Its practical focus examines psychological adjustment pre and post deployment commonly encountered conditions e g substance abuse and the promotion of well being sleep mindfulness and resilience

training Coverage pays particular attention to uses of psychology in selection and assessment of service personnel in specialized positions and training concerns for clinicians and students choosing to work with the military community Chapters also address topics of particular salience to a socially conscious military including PTSD sexual harassment and assault women's and LGBT issues suicide prevention and professional ethics Among the specific chapters topics covered Military deployment psychology psychologists in the forward environment Stress and resilience in married military couples Assessment and selection of high risk operational personnel processes procedures and underlying theoretical constructs Understanding and addressing sexual harassment and sexual assault in the US military Virtual reality applications for the assessment and treatment of PTSD Plus international perspectives on military psychology from China Australia India and more Grounding its readers in up to date research and practice Military Psychology will assist health psychologists clinical psychologists psychiatrists and clinical social workers in understanding and providing treatment for military populations veterans and their families as well as military psychologists in leadership and consulting positions Bioprocessing Pablo A. López Pérez, Ricardo Aguilar López, Ricardo Femat, 2020-06-08 Closes the gap between bioscience and mathematics based process engineering This book presents the most commonly employed approaches in the control of bioprocesses It discusses the role that control theory plays in understanding the mechanisms of cellular and metabolic processes and presents key results in various fields such as dynamic modeling dynamic properties of bioprocess models software sensors designed for the online estimation of parameters and state variables and control and supervision of bioprocesses Control in Bioengineering and Bioprocessing Modeling Estimation and the Use of Sensors is divided into three sections Part I Mathematical preliminaries and overview of the control and monitoring of bioprocess provides a general overview of the control and monitoring of bioprocesses and introduces the mathematical framework necessary for the analysis and characterization of bioprocess dynamics Part II Observability and control concepts presents the observability concepts which form the basis of design online estimation algorithms software sensor for bioprocesses and reviews controllability of these concepts including automatic feedback control systems Part III Software sensors and observer based control schemes for bioprocesses features six application cases including dynamic behavior of 3 dimensional continuous bioreactors observability analysis applied to 2D and 3D bioreactors with inhibitory and non inhibitory models and regulation of a continuously stirred bioreactor via modeling error compensation Applicable across all areas of bioprocess engineering including food and beverages biofuels and renewable energy pharmaceuticals and nutraceuticals fermentation systems product separation technologies wastewater and solid waste treatment technology and bioremediation Provides a clear explanation of the mass balance based mathematical modelling of bioprocesses and the main tools for its dynamic analysis Offers industry based applications on myco diesel for implementing quality of observability developing a virtual sensor based on the Just In Time Model to monitor biological control systems and virtual sensor design for state estimation in a

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