

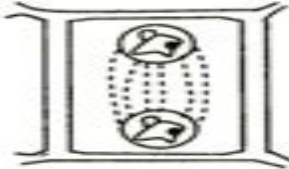
সময়—৩ ঘণ্টা
পূর্ণমান—(৬০ + ৪০)=১০০
সৃজনশীল প্রশ্ন
মান—৬০

[প্রটো—ডান পাশের সংখ্যা প্রশ্নের পূর্ণমান জ্ঞাপক। প্রদত্ত উদ্দীপকগুলো মনোযোগসহকারে পড় এবং সংশ্লিষ্ট প্রশ্নগুলোর উত্তর দাও।
যে কোনো ছয়টি প্রশ্নের উত্তর দিতে হবে।]

১।



ধাপ-A



ধাপ-B

- (ক) জীন কী? ১
(খ) মিয়োসিসকে ক্রাসমুলক বিভাজন বলা হয় কেন? বুঝিয়ে লেখ। ২
(গ) উদ্দীপকের B ধাপটিতে কী ধরনের পরিবর্তন ঘটে—ব্যাখ্যা কর। ৬
(ঘ) উদ্দীপকে উল্লিখিত প্রক্রিয়াটি সঠিকভাবে না ঘটলে জীবে কী সমস্যা হতে পারে—বিশ্লেষণ কর। ৪

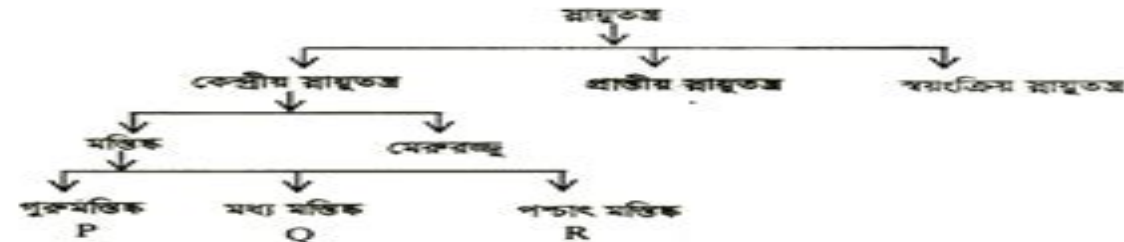
২। জুন থেকে বাসায় ফিরে আবার লক্ষ্য করলো বাসার টবে থাকা গাছগুলো সব নেতিয়ে পড়েছে। বিকেল বেলা সে গাছগুলোতে পানি দিল। পরদিন সকালে দেখল টবের গাছগুলো সতেজতা ফিরে পেয়েছে।

- (ক) ইমবাইবিশন কী? ১
(খ) ব্যাপন ও অভিস্রবণের মধ্যে দুটি পার্থক্য লিখ। ২
(গ) টবে থাকা গাছগুলো নেতিয়ে পড়ার কারণ ব্যাখ্যা কর। ৬
(ঘ) পরবর্তীতে গাছগুলো কিভাবে সতেজতা ফিরে পেল—বিশ্লেষণ কর। ৪

৩। রহিমা বেগম পান খাওয়ার জন্য একটি পাত্রে চুন ভিজিয়ে রাখলেন। পাত্র থেকে চুন নেওয়ার সময় লক্ষ্য করলেন, পাত্রটি অনেক গরম এবং পাত্রে তার নিঃশ্বাস পড়ায় পানি খানিকটা খোলা হয়ে যায়।

- (ক) এসিড কী? ১
(খ) নির্দেশক বলতে কি বুঝায়? ২
(গ) উদ্দীপকে উল্লিখিত পাত্রে ভিজানো যৌগটির বিভিন্ন ক্ষেত্রে ব্যবহার ব্যাখ্যা কর। ৬
(ঘ) উদ্দীপকে প্রথম উৎপন্ন যৌগটি ক্ষার ও ক্ষারক উভয় ধর্ম প্রদর্শন করে—যুক্তিসহ বিশ্লেষণ কর। ৪

৪।



- (ক) নিউরন কি? ১
(খ) মেরুঝু বলতে কি বুঝায়? ব্যাখ্যা কর। ২
(গ) চিত্রে R চিহ্নিত অংশের গঠন বর্ণনা কর। ৬
(ঘ) জ্ঞান, বুদ্ধি, বিবেক ও পেশি চালনার কার্যকলাপ নিয়ন্ত্রণ করাই 'P' চিহ্নিত অংশটির কাজ—উক্তিটি বিশ্লেষণ কর। ৪

[পর পৃষ্ঠা প্রটো]

বাকী পৃষ্ঠাগুলি নিচের লিঙ্কে ক্লিক করে ডাউনলোড করে পড়ুন।

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Baporikar, Neeta



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Commerce, Justice, Science, and Related Agencies Appropriations for 2015 United States. Congress. House. Committee on Appropriations. Subcommittee on Commerce, Justice, Science, and Related Agencies, 2014 **A Review of the National Aeronautics and Space Administration Budget for Fiscal Year 2015** United States. Congress. House. Committee on Science, Space, and Technology (2011). Subcommittee on Space, 2015 *NASA's Human Space Exploration* United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Science and Space, 2012

Materials Science and Metallurgical Technology III Andrey A. Radionov, 2022-02-03 Selected peer reviewed full text papers from the 4th International Russian Conference on Materials Science and Metallurgical Technology RusMetalCon 2021

The Will to Drill - Mining in Arctic Communities Brigit Dale, Ingrid Bay-Larsen, Berit Skorstad, 2017-10-04 This book focuses on the connections between mining activities knowledge politics and the valuation of landscape in selected case sites in Russia Greenland and Norway whilst considering the interrelated aspects of industrialized natural resource based development and environmental concerns in the Arctic The case studies in these three different countries reveals that there are indeed multiple Arctics not least concerning the way extractive industries are received and perceived and that national legislation public awareness and economic alternatives are amongst the variables that influence to what extent environmental ramifications of mining are accepted Through analysis of political discourses legal documents grey literature discussions in local and national media and empirical material from in site fieldwork the authors seek to understand how debates about mining reveal more general conflicts and concerns about how to define sustainability The book contributes to the overall debates on both extractive industries and development trends in the Arctic and will as such be of interest for both established scholars and students as well as policy makers and the public The compilation of cases and variety of analytical perspectives will further stimulate the ongoing debates concerning the impacts of extractive industries on communities both in the Arctic and beyond Commerce, Justice, Science, and Related Agencies Appropriations for 2016 United States. Congress. House. Committee on Appropriations. Subcommittee on Commerce, Justice, Science, and Related Agencies, 2015

Leading the 21st-Century Academic Library Bradford Lee Eden, 2015-03-02 Libraries of all types have undergone significant developments in the last few decades The rate of change in the academic library a presence for decades now has been increasing in the first decade of this century It is no exaggeration to claim that it is undergoing a top to bottom redefinition Cataloging and reference remain central to its new role and the circulation of books is still high though declining Among the changes is the architecture of the library when new libraries replace old or where renovation is occurring the role of technology at every stage and in every library application the management of serials selection shelving and budgeting and in a gradual but irrevocable move to digital forms altered allocation of resources including larger portions of the budget diverted to preservation not only of aging books a theme in the latter part of the last century but of digital files cultural

historical personal In brief the academic library is dramatically different today than it was only ten years ago And with it the profession of the academic librarian is also undergoing significant changes Managing digital resources in all its forms from telecommunications to storage and access devices is central to its new roles Creating curating and preserving digital information is also key to the new librarianship And what about services to its clients Here also we see dramatic change particularly but not exclusively with guiding library users in the effective use of networked knowledge Information literacy is a key term and skill in using the new tools of digital literacy reading and writing searching and extracting and the new technologies that drive social networking the Iphone Ipad and Ipod and its many imitators We can t expect the redefined academic library to assume its final shape any time soon if ever but the transformation is well underway This series Creating the 21st Century Academic Library will explore this topic from a number of different perspectives Volume 1 Visionary Leadership and Futures will begin the discussion by examining some of the new roles and directions academic libraries are taking

Justice and food security in a changing climate Hanna Schübel,Ivo Wallimann-Helmer,2023-08-14 The UN s Sustainable Development Goals saw the global community agree to end hunger and malnutrition in all its forms by 2030 However the number of chronically undernourished people is increasing continuously Ongoing climate change and the action needed to adapt to it are very likely to aggravate this situation by limiting agricultural land and water resources and changing environmental conditions for food production Climate change and the actions it requires raise questions of justice especially regarding food security These key concerns of ethics and justice for food security due to climate change challenges are the focus of this book which brings together work by scholars from a wide range of disciplines and a multitude of perspectives These experts discuss the challenges to food security posed by mitigation geoengineering and adaptation measures that tackle the impacts of climate change Others address the consequences of a changing climate for agriculture and food production and how the Covid 19 pandemic has affected food security and animal welfare

Veterinary Epidemiology Michael Thrusfield,2018-04-30 A comprehensive introduction to the role of epidemiology in veterinary medicine This fully revised and expanded edition of Veterinary Epidemiology introduces readers to the field of veterinary epidemiology The new edition also adds new chapters on the design of observational studies validity in epidemiological studies systematic reviews and statistical modelling to deliver more advanced material This updated edition begins by offering an historical perspective on the development of veterinary medicine It then addresses the full scope of epidemiology with chapters covering causality disease occurrence determinants disease patterns disease ecology and much more

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multiple choice questions Veterinary Epidemiology is an invaluable reference for veterinary general practitioners government veterinarians agricultural economists and members of other disciplines interested in animal disease It is also essential reading for epidemiology students at both the undergraduate and postgraduate levels **Innovative**

Technologies for Enhancing Knowledge Access in Academic Libraries Masenya, Tlou Maggie,2022-06-24 An increasing number of academic libraries worldwide are adopting innovative technologies in creating organizing storing managing disseminating preserving and enhancing access to their vital knowledge in order to adapt to the changing library environment and to stay relevant in the digital world This transition necessitates a need for best practices and reimagined strategies of implementing innovative technologies to ensure sustainable knowledge access and increase knowledge sharing Innovative Technologies for Enhancing Knowledge Access in Academic Libraries aims to provide best practices innovative strategies theoretical frameworks conceptual frameworks and empirical research findings regarding the application of emerging and innovative technologies in managing preserving and enhancing knowledge access in academic libraries worldwide Covering a range of topics such as artificial intelligence knowledge organization records management and library services this reference work is ideal for librarians researchers scholars practitioners academicians instructors and students

Establishing Self Sovereign Identity with Blockchain Alan Sherriff,Kaliya Young,Michael Shea,2022-09-29 **A Research Agenda for Energy Politics** Jennifer I. Considine,Sylvain Cote,Douglas Cooke,Geoffrey Wood,2023-01-20 Presenting cutting edge research on the future of energy geopolitics this visionary and provocative Research Agenda takes a hard look at the pressing issues faced by energy researchers in the new world dis order This title contains one or more Open Access chapters **Innovation and Resource Management Strategies for Startups Development** Baporikar, Neeta,2024-02-26 In business success hinges not only on individual performance but on the vitality of the broader ecosystem in which a company operates However crafting a thriving ecosystem alone is not enough to ensure success Equally vital is the ability to manage relationships within this ecosystem effectively harnessing its potential to enhance overall performance Moreover startups face the daunting challenge of scalability a pivotal factor in long term sustainability Yet achieving scalability often proves elusive due to complexities in resource management and ecosystem development Innovation and Resource Management Strategies for Startups Development is a comprehensive solution to the pressing issues of resource management ecosystem development and startup scalability This unique reference book delves deep into these critical aspects offering a wealth of ideas case studies and best practices alongside thorough theoretical analysis We recognize the undeniable influence of resource management and ecosystems on startup scalability and our objective is to enhance understanding in this domain By examining the powerful concepts that have shaped development policy and dissecting the role of resource management and ecosystem development in current discourse our book provides the necessary insights to identify inefficiencies and facilitate startup scalability It goes beyond mere theory fostering collaborative strategies among resources ecosystems and startups on

a global scale ultimately contributing to social and economic development Metadata Standards and Web Services in Libraries, Archives, and Museums Erik Mitchell, 2015-10-21 Metadata in library information environments is evolving rapidly This book provides readers with a set of tools for designing developing and implementing metadata rich information systems while also examining the challenges and opportunities in this field As the world of library and information science has developed in the age of digital information metadata and metadata rich information systems have become increasingly important and more complex and confusing This book will enable students instructors and practitioners in the information science field to understand how these new systems and standards will impact their careers and professions Author Erik Mitchell explores definitions of information and presents an up to date consideration of user needs in information systems to provide necessary background before moving on to in depth discussions of metadata information organization practice and information system design Each chapter incorporates hands on activities to complement the reading material allowing readers to build technical skills alongside the important conceptual learning in this content area Readers will gain conceptual understanding and skills that will allow them to analyze and transform structured data develop metadata rich information systems and design systems with user needs and digital literacies in mind This book is intended for library and information science students taking information organization metadata or other core digital cataloging classes but will also be highly useful for professionals seeking to learn the details of metadata systems and theory using a hands on approach **The Science and Practice of Captive Animal Welfare** Terry L. Maple, Bonnie M. Perdue, Sally Sherwen, 2020-10-12 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org about contact **Sample Return Missions** Andrea Longobardo, 2021-05-10 Sample Return Missions The Last Frontier of Solar System Exploration examines the discoveries and results obtained from sample return missions of the past present and future It analyses the results in the context of the current state of knowledge and their relation to the formation and evolution of planetary bodies as well as to the available technologies and techniques It provides detailed descriptions of experimental procedures applied to returned samples Beginning with an overview of previous missions Sample Return Missions then goes on to provide an overview of facilities throughout the world used to analyze the returned samples Finally it addresses techniques for collection transport and analysis of the samples with an additional focus on lessons learned and future perspectives Providing an in depth examination of a variety of missions with both scientific and engineering implications this book is an important resource for the planetary science community as well as the experimentalist and engineering

communities Presents sample return results obtained so far in relation to remote sensing measurements methods and techniques for laboratory analysis and technology Provides an overview of a variety of sample return missions from Apollo to Hayabusa 2 to future missions Examines technological and methodological advances in analyzing returned samples as well as the resources available globally *Critical Theory and Transformative Learning* Wang, Viktor, 2018-06-04 Engaging in genuine dialogue and authentic communication is essential for teachers to assist students successes and help them further their education through refining critical thinking skills beyond the classroom Critical Theory and Transformative Learning is a critical scholarly resource that examines and contrasts the key concepts related to critical approaches in educational settings Featuring coverage on a broad range of topics including repressive tolerance online teaching and adult education this book is geared toward educators administrators academicians and researchers seeking current research on transformative learning and addressing the interconnectedness of important theories and praxis *Debates in Elite Sports and Performance Enhancement: 2022* Marco Beato, Antonio Dello Iacono, Melinda M. Manore, Joseph S. Marino, 2023-06-29

All Made Up Rae Nudson, 2021-07-13 A fascinating journey through history and culture examining how makeup affects self empowerment how people have used it to define and defy their roles in society and why we all need to care There is a history and a cultural significance that comes with wearing cat eye inspired liner or a bold red lip one that many women feel to this day even if we don t realize exactly why Increasingly people of all genders are wrestling with what it means to be a woman living in a patriarchy and part of that is how looking like a woman whatever that means affects people s real lives Through the stories of famous women like Cleopatra Empress Wu Madam C J Walker Elizabeth Taylor and Marsha P Johnson Rae Nudson unpacks makeup s cultural impact including how it can be used to shape a personal or cultural narrative how often beauty standards align with whiteness how and when it can be used for safety and its function in the workplace to name a few examples Every woman has had to make a very personal choice about her relationship with makeup and consciously or unconsciously every woman knows that the choice is never entirely hers to make This book also holds space for complicating factors especially the ways that beauty standards differ across race class and culture Engaging and informative All Made Up will expand the discussion around what it means to participate in creating your own self image

Contract Law and the Legislature TT Arvind, Jenny Steele, 2020-08-06 This volume revisits some of the key debates about the nature and shape of contract law in light of the impact that statutes have had on its development With contributions from leading contract law scholars it fills a significant gap in existing theoretical and doctrinal analyses of contract law which rely primarily on cases to put forward accounts of the general principles and structure of contract law Statutory rules are typically seen as being specific instances of legal regulation that carve out exceptions to these general principles for specific reasons of policy This treatment of these rules has resulted in an incomplete understanding of the nature of contract law and the principles that underpin it By drawing specifically on contract statutes the volume produces a

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element change into atoms of another element during chemical reactions 6

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