

সেট-০১

জুনিয়র স্কুল সার্টিফিকেট পরীক্ষা
বিজ্ঞান (সৃজনশীল + বহুনির্বাচনি অধীক্ষা)

বিষয় কোড :

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সময়—৩ ঘণ্টা

পূর্ণমান—৭০+৩০=১০০

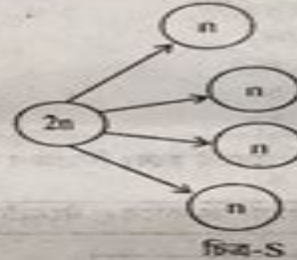
সৃজনশীল প্রশ্ন

মান—৭০

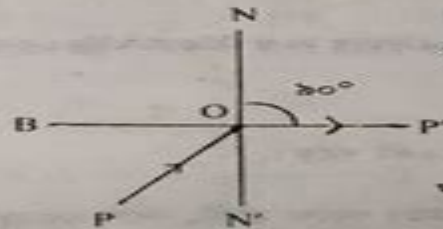
দ্রষ্টব্য : ভান পাশের সংখ্যা প্রশ্নের পূর্ণমান জ্ঞাপক। প্রদত্ত উদ্দীপকগুলো মনোযোগসহকারে পড় এবং সংশ্লিষ্ট প্রশ্নের উত্তর দাও।
যে কোনো সত্যটি প্রশ্নের উত্তর দিতে হবে।

- ১। নুজহাত রাতে খাবার খেতে বসে টেবিলে ইলিশ মাছের তরকারি লক্ষ্য করলো। এ সময় বিদ্যুৎ চলে যাওয়ায় তার বড় বোন অর্পা মোমবাতি নিয়ে আসলো। হঠাৎ একটি প্রাণী উড়ে টেবিলের পাশের পর্দায় এসে পড়লো যার সন্ধিযুক্ত উপাঙ্গ ও এন্টেনা ছিল। এতে নুজহাত ভয় পেয়ে গেল।
- (ক) স্থিতি নামকরণ কাকে বলে?
- (খ) কুমিরকে কেন সরীসৃপ বলা হয়?
- (গ) উদ্দীপকে পর্দায় এসে পড়া প্রাণীটি কোন পর্বের? ব্যাখ্যা কর।
- (ঘ) নুজহাত ও টেবিলে তরকারি হিসেবে রাখা মাছটি একই পর্বভুক্ত হলেও একই শ্রেণিভুক্ত নয়—বিশ্লেষণ কর।

২।



- (ক) ক্যারিওকাইনেসিস কাকে বলে?
- (খ) ক্রোমোজোম বংশগতিতে ভূমিকা রাখে—ব্যাখ্যা কর।
- (গ) চিত্রে R এর চতুর্থ পর্যায়টির চিহ্নিত চিত্র আঁক।
- (ঘ) প্রজাতির বংশগতি রক্ষায় চিত্রে S কোষ বিভাজনের গুরুত্ব বিশ্লেষণ কর।



হালকা মাধ্যম

ঘন মাধ্যম



- (ক) অক্সিগেন কাকে বলে?
- (খ) ছোট বস্তুর বড় সেবার কাজে ম্যাগনিকাইং গ্লাস অনন্য—ব্যাখ্যা কর।
- (গ) A অবস্থানে থাকা মাছটি শিকার করতে হলে কোথায় কোচ নিক্ষেপ করতে হবে? ব্যাখ্যা কর।
- (ঘ) ঘন মাধ্যমে অবস্থিত $\angle PON'$ এর মান বড় হলে সংঘটিত আলোকীয় ঘটনাটি টেলিযোগাযোগে ভূমিকা রাখে—বিশ্লেষণ কর।

Jsc Science Question Paper 2014

R Barnett



Jsc Science Question Paper 2014:

Minerals Yearbook Geological Survey, Interior Department, Mines Bureau, 2019-02-15 This volume covering metals and minerals contains chapters on approximately 90 commodities In addition this volume has chapters on mining and quarrying trends and on statistical surveying methods used by Minerals Information plus a statistical summary *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 **Spacewear** Barbara Brownie, 2019-01-10 Today we are living in the New Space Age where mass commercial space travel is almost within our grasp This otherworldly possibility has opened up new cultural images of space both real and fictional and has caused fashion design and spacesuit engineering to intersect in new exciting ways Spacewear traverses this uncharted territory by exploring the changing imagination of space in fashion and fashion in space from the first Space Age to the 21st century Exploring how space travel has stylistically and technologically framed fashion design on earth and how we need to revisit established design practices for the weightless environment Spacewear connects the catwalk and the space station This book draws together speculative fantasies in sci fi films such as Star Trek and 2001 A Space Odyssey with the engineered spacesuits Biosuit and the NASA Z 2 and with catwalk interpretations by the likes of Alexander McQueen Hussein Chalayan Andr Courr ges and Iris van Herpen While the development of commercial space agencies has led to new concerns for style in garments for outer space that re think fundamental design principles such as drape high fashion has experimented with new possibilities for weightlessness that extend far beyond the 1960s vision of Space Age metallic fabrics and helmet style headwear Brownie takes the reader on a fascinating journey from

fantasy to function and to form deepening our understanding of this new category of fashion that is prompting new approaches to garment design and construction both on earth and in outer space

Neuromuscular Training and Adaptations in Youth Athletes Urs Granacher, Christian Puta, Holger Horst Werner Gabriel, David G. Behm, Adamantios Arampatzis, 2018-11-02 The Frontiers Research Topic entitled Neuromuscular Training and Adaptations in Youth Athletes contains one editorial and 22 articles in the form of original work narrative and systematic reviews and meta analyses From a performance and health related standpoint neuromuscular training stimulates young athletes physical development and it builds a strong foundation for later success as an elite athlete The 22 articles provide current scientific knowledge on the effectiveness of neuromuscular training in young athletes

Strategic Approaches to Successful Crowdfunding Assadi, Djamchid, 2015-12-02 This title is an IGI Global Core Reference for 2019 as it is one of the best selling reference books within the Business and Management subject area since 2016 This publication provides the timeliest research from leading researchers in the United States France United Kingdom and Turkey on e commerce capital investment peer to peer lending digital philanthropy and virtual communities Strategic Approaches to Successful Crowdfunding brings together a collection of research based chapters relating to the use of the social web to raise funds and provide financial support for start up companies individual pursuits and philanthropic endeavors Focusing on a diverse set of topics relating to e commerce capital investment peer to peer lending digital philanthropy and virtual communities this timely publication is an essential reference source for academicians researchers professionals and graduate students interested in understanding the dynamics best practices and managerial solutions for drawing funds and financial support from online communities

Yearbook of International Organizations 2014-2015 (Volume 4) Union Of International Associations, Union of International Associations, 2014-09-17 The Yearbook of International Organizations provides the most extensive coverage of non profit international organizations currently available Detailed profiles of international non governmental and intergovernmental organizations IGO collected and documented by the Union of International Associations can be found here In addition to the history aims and activities of international organizations with their events publications and contact details the volumes of the Yearbook include networks between associations biographies of key people involved and extensive statistical data Providing both an international organizations and research bibliography Volume 4 cites over 46 000 publications and information resources supplied by international organizations and provides nearly 18 000 research citations under 40 subject headings This volume also includes a research bibliography on international organizations and transnational associations

English Mechanic and World of Science, 1871

ECIE 2017 12th European Conference on Innovation and Entrepreneurship Christophe Loué, Sonia Ben Slimane, 2017-09-21

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

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 reimaged 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

Journey of the Future Enterprise Jorge Calvo, 2020-10-29 To survive in the new competitive digital economy of artificial intelligence and the Internet of Things companies will have to change their management models The company of linear incremental growth is becoming obsolete Moonshot leaders like Elon Musk or Jeff Bezos aspire to bringing about massive transformations These visionaries seek radical solutions to big problems through enabling technologies that are easily scalable and yield increasing returns with decreasing marginal costs that in many cases approach zero In his book Journey of the Future Enterprise Jorge Calvo explains what the disruptive change of the Fourth Industrial Revolution consists of what moonshot leadership is and what exponential organizations ExOs are and having set out the conceptual framework explains how to gear companies toward the new economy In short this resource packed book is written for those who want to be part of this change for those who are suffering the impact of this

radical transformation for those who feel lost as a result of the complexity and speed of the changes that are taking place and for those who want to better understand the drivers of the Fourth Industrial Revolution

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 more complete picture of modern contract law A companion to the ground breaking *Tort Law and the Legislature* Common Law Statute and the Dynamics of Legal Change Hart Publishing 2012 this collection will have a significant impact on the study of contract law

Establishing Self Sovereign Identity with Blockchain Alan Sherriff, Kaliya Young, Michael Shea, 2022-09-29

Financial Entrepreneurship for Economic Growth in Emerging Nations Woldie, Atsedie, Thomas, Brychan, 2017-07-13 Entrepreneurial endeavors are a pivotal driving force behind the modern business sector These enterprises play a significant role in the development and sustainability of a nation's economy *Financial Entrepreneurship for Economic Growth in Emerging Nations* is an innovative reference source for the latest scholarly research on strategies and techniques for financing small and medium sized enterprises in the context of developing nations Including a range of pertinent topics such as microinsurance risk management and advertising this book is ideal for managers academics professionals graduate students and practitioners interested in the dynamics of financial entrepreneurship

Confronting Global Climate Change Mark Harris, 2019-06-07 This book offers a solutions based approach to climate change problems which potentially impinge on human beings within the tropics It largely comprises research articles with supplementary applications and illustrations The effects of atmospheric phenomena energy acquisition wind power CO2 sequestration are linked with soils aquatic life reducing deforestation rainwater harvesting and clay pot farming climate plant disease and food security to show that no area of life is untouched by the phenomenon of climate change It discusses specific problem areas and provides an overview of geotechnical and sustainable solutions to lessen the impact of climate

Exploring Perspectives on Creativity Theory and Research in Education Daniel A. Tillman, 2024-04-16 Collectively the sixteen chapters in this book investigate the power of creativity in the classroom many through the specific lens of limited resources as an opportunity The chapters are divided into two sections eight chapters comprising Section I Theory and Research and then the eight chapters comprising Section II Additional Perspectives and Future Directions Within these two sections the more than two dozen authors that contributed to this book tackle a wide range of the possibilities for designing creative classroom based instruction wherein limited

resources are highlighted and valued rather than avoided or lamented The two main sections of this book are each preceded by a brief introductory summary highlighting those sections attributes and objectives with the intention of providing helpful structure to the reader but the book has also been designed such that each chapter stands independently and can be jumped to directly like a handbook In its totality this book exploring perspectives on creativity theory and research in education is designed to serve as a valuable resource for teachers teacher educators school administrators parents and education researchers along with anyone else that is interested in optimizing our opportunities for nurturing creativity within classrooms

A Space Mind Ross Abotteen,2014-09-29 From his birth on the West Bank of the Jordan River in Palestine in 1950 to present day Texas *A Space Mind* narrates the story of Ross Abotteen This memoir explores the transitions of his life and his views sharing his experiences from his birthplace in the Holy Land through Saudi Arabia and onto his final destiny with NASA in Houston Growing up in meager circumstances in a small village Abotteen recalls his family life as the youngest of seven brothers and one sister *A Space Mind* follows his schooling in Dammam and his subsequent move to the United States where he excelled at electrical engineering He became contractor for NASA s Lyndon B Johnson Space Center in Houston where he worked as a scientist engineer author and inventor from 1974 to 2009 He also shares his struggles with mental illness and cancer and how that affected him and his family Inspirational and educational *A Space Mind* offers a glimpse into a man who lived an amazing life as a scientific engineer with roots in Arabia

□□□□□□□□ □□□□□□,2021-05-25 etc all in Bloomberg Markets 2 6 Paypal Visa USDC Microstrategy Square NFT SpaceX 2009 Finn Brunton Spam A Shadow History of the Internet Communication and Obfuscation A User s Guide for Privacy and Protest **Viaje al futuro de la empresa** Jorge Calvo,2020-09-21 Para sobrevivir en la nueva y competitiva econom a digital de la inteligencia artificial y el internet de las cosas las empresas tienen que cambiar sus modelos de gesti n La empresa de crecimiento lineal e incremental est quedando obsoleta Los l deres moonshot como Elon Musk o Jeff Bezos buscan transformaciones masivas Estos visionarios ambicionan soluciones radicales para grandes problemas a trav s de tecnolog as facilitadoras f cilmente escalables con rendimientos crecientes y costes marginales decrecientes que llegan a tender a cero en muchos casos El libro Viaje al futuro de la empresa de Jorge Calvo pretende explicar en qu consiste el cambio disruptivo de la Cuarta Revoluci n Industrial qu es el liderazgo moonshot y c mo son las organizaciones exponenciales ExO y una vez expuesto el marco conceptual explica c mo transformar las empresas hacia la nueva econom a En resumen es un libro escrito para dar recursos a los que quieren ser parte del cambio para guiar a los que est n sufriendo el impacto de esta transformaci n radical para quienes se sienten perdidos por la complejidad y la velocidad de los cambios que se est n experimentando y para quienes quieran comprender mejor los motores de la Cuarta Revoluci n Industrial *Elektricheskie stant*□s□ii ,2014

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