

সময় : ২ ঘণ্টা ১০ মিনিট

সৃজনশীল প্রশ্ন

পূর্ণমান—

[বি.প্র. : যে কোনো চারটি প্রশ্নের উত্তর দাও। দক্ষিণ পার্শ্বস্থ সংখ্যা প্রশ্নের পূর্ণমান আলাদা।]

বৌন জননের জন্য নিম্নে একটি অপরিহার্য প্রক্রিয়া। এ প্রক্রিয়া সম্পাদনের জন্য দুটি বিপরীতধর্মী হ্যাণ্ডলেড কোষের প্রয়োজন হয়। দুটি কোষের ২ একটি সাধারণত সচল এবং অপরটি নিষ্কল।

- অর্গানোজেনেসিস কী?
- তৃতীয় কোষস্তর বলতে কী বুঝ?
- উদ্ভীপকে উদ্ভিষিত সচল হ্যাণ্ডলেড কোষের উৎপাদন প্রক্রিয়া ব্যাখ্যা কর।
- উদ্ভীপকে উদ্ভিষিত কোষ দুটির উৎপাদনের প্রক্রিয়া আলাদা আলাদা— উদ্ভিষ্টির মধ্যার্থতা নিবৃণন কর।

উদ্ভিদ ও প্রাণী উভয় কোষে বিদ্যমান সজীব ডিফ্রিটির গঠন সম্পর্কে বিভিন্ন বিজ্ঞানী বিভিন্ন মতবাদ ও মডেল প্রদান করেছেন। এর মধ্যে একটি মডেল এ পর্যন্ত সর্বজনগ্রাহ্য। ডিফ্রিটি কোষের জন্য খুবই গুরুত্বপূর্ণ।

- একক পর্দা বা ইউনিট মেমব্রেন কী?
- লাইসোজোমকে আত্মঘাতী থলিকা বলা হয় কেন?
- উদ্ভীপকে উদ্ভিষিত ডিফ্রিটির গঠন সম্পর্কিত সর্বজনগ্রাহ্য মডেলটি ব্যাখ্যা কর।
- উদ্ভীপকের ডিফ্রিটি কোষের জন্য খুবই গুরুত্বপূর্ণ — উদ্ভিষ্টির মধ্যার্থতা নিবৃণন কর।

মানুষের গুরুত্বপূর্ণ ইন্দ্রিয়গুলোর মধ্যে কান ও চোখ অন্যতম। অনেকে চোখের ত্রুটি বর্ণালম্বতায় এবং কানের বহিরতায় ভোগে। বর্ণালম্বতা একটি বংশ রোগ।

- উপযোজন কাকে বলে?
- মানুষের প্রবণ কৌশল প্রবাহ একে প্রকাশ কর।
- মানুষের চোখের লক্ষণগুলোর চিহ্নিত চিত্র আঁক।
- উদ্ভীপকের শেষোক্ত লাইনটি প্রমাণ কর।

A → (a) ডান অ্যাক্সিয়াম → (b) ভেন্ট্রিকল ফুসফুস → (c) বাম অ্যাক্সিয়াম → (d) ভেন্ট্রিকল → (H)

- লসিকা কী?
- অন্তঃশ্বাসন ও বহিঃশ্বাসনের মধ্যে পার্থক্য লিখ।
- উদ্ভীপকের abcd অংশগুলোর সমন্বয়ে সংশ্লিষ্ট অঙ্গের চিহ্নিত চিত্র আঁক।
- উদ্ভীপকের প্রবাহটি ব্যাখ্যা কর।

পাকস্থলী ও সিকামের মধ্যবর্তী নালীতে বেশির ভাগ খাদ্যবস্তু পরিপাক হয়। এ নালীর মিউকোসা স্তরের অসংখ্য পরিশোধন একক থাকে।

- টায়ালিন কী?
- দন্তসংকেত বলতে কী বুঝ?
- উদ্ভীপকে উদ্ভিষিত নালীতে খাদ্য পরিপাক পদ্ধতি বর্ণনা কর।
- উদ্ভীপকে উদ্ভিষিত পরিশোধন এককগুলোর ভূমিকা মূল্যায়ন কর।

পিতামাতা :	ফিনোটাইপ :	হলুদাভ ইদুর	হলুদাভ ইদুর
	জেনোটাইপ :	A ^a a	A ^a a
	জননকোষ :	A ^a , a	A ^a , a
F ₂ জনু :			

- লোকাস কী?
- টেস্ট ক্রস এবং বেক ক্রস বলতে কী বুঝ?
- উপরের F₂ জনু ক্রকার বোর্ডের মাধ্যমে দেখাও এবং বর্ণনা কর।
- ফি-সংকেত ত্রুটিপ্রকট প্রচ্ছন্ন জিন তিন লোকাসে অবস্থানকারী একে অপরের প্রকট আদিলকে বৈশিষ্ট্য প্রকাশে বাধা দেয়— ব্যাখ্যা কর।

বাকী পৃষ্ঠাগুলি নিচের লিঙ্কে ক্লিক করে ডাউনলোড করে পড়ুন।

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Rosemary Pashley



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Cambridge Checkpoints HSC Advanced English 2017 Melpomene Dixon,Kate Murphy,Amy Hughes,2016-06-28
Financial Services and General Government Appropriations for 2015 United States. Congress. House. Committee on Appropriations. Subcommittee on Financial Services and General Government,2014 **Cambridge Checkpoints HSC Standard English 2017** Mel Dixon,Kate Murphy,Amy Hughes,2016-06-28 Liver Myofibroblasts Jiri Kanta,Alena Mrkvicová,Ralf Weiskirchen,2016-10-25 Myofibroblasts MFB are found in most tissues of the body They have the matrix producing functions of fibroblasts and contractile properties that are known from smooth muscle cells Fundamental work of the last decades has shed remarkable light on their origin biological functions and role in disease During hepatic injury they fulfill manifold functions in connective tissue remodeling and wound healing but overshooting activity of MFB on the other side induces fibrosis and cirrhosis The present e book Liver myofibroblasts contains 9 articles providing comprehensive information on hot topics of MFB In our opening editorial we provide a short overview of the origin of MFB and their relevance in extracellular matrix formation which is the hallmark of hepatic fibrosis Thereafter leading experts in the field share their current perspectives on special topics of i MFB in development and disease ii their role in hepatic fibrogenesis and iii promising therapies and targets that are suitable to interfere with hepatic fibrosis **Four-Year Colleges 2015** Peterson's,2014-07-29 Peterson s Four Year Colleges 2015 is the trusted guide of high school guidance counselors parents and students This valuable resource includes information on accredited four year undergraduate institution in the United States and Canada and many international schools more than 2 600 institutions in all It also includes detailed two page descriptions written by admissions personnel for more than 400 colleges and universities College bound students and their parents can access important information including campus setting enrollment academic programs entrance difficulty expenses student faculty ratio application deadlines and contact information as well as the most frequently chosen baccalaureate fields The Advice Center provides helpful articles on specialized college options such as Honors Programs and Colleges Online Learning Women s Colleges and Public vs Private institutions Other articles offer advice on making a list of your Top Ten colleges surviving standardized tests preparing to get into college paying for college scholarship guidance and advice for international students applying to U S colleges and universities Indexes include Majors or Fields of Study Entrance Difficulty Cost Ranges and geographic and alphabetical listings of all schools **Cambridge Checkpoints HSC Physics 2017-19** Sydney Boydell,2016-06-28 Updated annually to provide the most up to date exam preparation available Cambridge Checkpoints HSC provides everything you need to prepare for your HSC exams in a go anywhere format that fits easily into your schoolbag Most Cambridge Checkpoints HSC titles are now also supported by the Cambridge Checkpoints Quiz Me App a mobile web app with exam style quizzes responses and scoring to help you prepare for success in your HSC examinations
 Cambridge Checkpoints HSC Chemistry 2017-19 Maureen Slade,Roger Slade,2016-06-29 **Excel HSC**

Geography Rosemary Pashley, 2003 This comprehensive study guide covers every topic in the last two sections of the HSC Geography course and has been specifically created to maximise exam success This guide has been designed to meet all study needs providing up to date information in an easy to use format Excel HSC Geography contains 108 study cards for revision on the go or at home comprehensive coverage of the entire HSC Geography course with maps diagrams and source materials a summary of the outcomes and content for each of the three sections of the course a range of exercises and questions with answers to improve skills in Geography numerous exercises and selected answers to sharpen your geographical skills especially useful for the multiple choice and short answer sections of the HSC exam key words and concepts are highlighted throughout and grouped in a comprehensive glossary extended case studies and information on Ecosystems at Risk Urban Places and People and Economic Activity two sample HSC style examination papers a full colour eight page section of stimulus material lists of useful websites throughout

RUNX Proteins in Development and Cancer Yoram Groner, Yoshiaki Ito, Paul Liu, James C. Neil, Nancy A. Speck, Andre van Wijnen, 2017-03-15 This volume provides the reader with an overview of the diverse functions of the RUNX family of genes As highlighted in the introduction and several of the 29 chapters humans and other mammals have three RUNX genes that are known to play specific roles in blood bone and neuronal development However their evolutionary history has recently been traced back to unicellular organisms and their involvement in many well known signaling pathways Wnt TGF β Notch Hippo is indicative of a more general function in cell biology Their documented roles in cell fate decisions include control of proliferation differentiation survival senescence and autophagy The pleiotropic effects of RUNX in development are mirrored in cancer where RUNX genes can function as oncogenes that collaborate strongly with Myc family oncogenes or as tumour suppressor genes In the latter role they display hallmarks of both gatekeepers that modulate p53 responses and caretakers that protect the genome from DNA damage Several chapters focus on the importance of these genes in leukemia research where RUNX1 and CBF β are frequently affected by chromosomal translocations that generate fusion oncoproteins while recent studies suggest wider roles for RUNX modulation in solid cancers Moreover RUNX genes are intimately involved in the development and regulation of the immune system while emerging evidence suggests a role in innate immunity to infectious agents including HIV At the biochemical level the RUNX family can serve as activators or repressors of transcription and as stable mediators of epigenetic memory through mitosis Not surprisingly RUNX activity is controlled at multiple levels this includes miRNAs and a plethora of post translational modifications Several chapters highlight the interplay between the three mammalian RUNX genes where cross talk and partial functional redundancies are evident Finally structural analysis of the RUNX CBF β interaction has led to the development of small molecule inhibitors that provide exciting new tools to decipher the roles of RUNX in development and as targets for therapy This volume provides a compendium and reference source that will be of broad interest to cancer researchers developmental biologists and immunologists

Stem Cells Khawaja H. Haider, 2021-11-30 In this volume the

contributing authors from top labs involved in stem cell theranostics share the latest advances in the field of stem cell research The book covers many aspects of stem cell based therapy and the progress made toward stem cell therapy for liver ocular and cardiovascular diseases as well as cancer This volume serves as a continuation of Prof Khawaja Husnain Haider s previously edited books pertaining to stem cells based therapnostics This is an ideal book for researchers involved in drug development as well as regenerative medicine and stem cell based therapy The secondary audience includes graduate and postgraduate medical students doctors cellular pharmacology drug industry and researchers involved in using stem cells as ex vivo disease models for drug development

Extremisms in Africa Volume 2 Alain Tschudin,Craig Moffat,Stephen Buchanan-Clarke,Susan Russell,Lloyd Coutts,2019-06-18 Over the past two decades the rapid emergence and spread of both local and transnational extremist organisations has become a primary source of insecurity in Africa Extremist organisations represent the fluid and variable nature of conflict systems today and are at the heart of some of Africa s most enduring conflicts Moreover the inability of African states to contain the threat of extremism or of heavy handed security responses has led to the loss of thousands of lives displaced millions and deeply impacted the continent s democratisation and development goals This is the second anthology published by Good Governance Africa GGA on the topic of extremism and political violence in Africa Extremisms in Africa one of the first anthologies of its kind on this topic to be authored and published on the African continent provided an account of how extremist groups arose in Africa and the various ways in which they have harnessed their global agendas to local conflict dynamics and structural challenges enabling them to exploit the grievances of individuals and communities for their cause This anthology Extremisms in Africa Volume 2 looks forward giving special attention to the ways in which emergent trends global geopolitics and conflict dynamics merge to impact upon the African continent To this end we have sought to engage diverse topics ranging from ecological concerns surrounding climate change and migration the implications of such human movement for modern day trafficking and slavery and the roles of women and youth State responses to extremisms on the African continent are not uniform the capacity of individual states to detect identify police investigate and prosecute is highly variable At the most fundamental level extremisms are ripe to arise in contexts where governments are failing especially when democracy is on the wane This anthology identifies some of the most pressing challenges in addressing extremisms today and provides chapters that could offer actionable policy insights to governments and civil society Given the nature of Africa s geopolitical landscape state and security services alone cannot prevent extremism It will take a whole of society approach where government civil society academia communities families and individuals collaborate to better understand the local dynamics of recruitment and radicalisation and develop context specific strategies in response This anthology will hopefully provide practitioners with improved insight into some of the key challenges and potential solutions in preventing extremism while also being of interest to the general reader

Roles of Liver Sinusoidal Endothelial Cells in Liver Homeostasis and Disease Patricia Lalor,Leo A. van

Grunsvén,Thomas Huser,2022-03-30 **Risk, Reliability and Resilience in Operations Management** Sachin Mangla,Yigit Kazancoglu,Gunjan Soni,Surya Prakash,2025-04-14 Risk Reliability and Resilience in Operations Management examines measurement tools and techniques and their real world application The book provides a resource that is needed to help solve complex business operations and global supply chains and their important requirements for the accurate measurement of risk reliability and resilience to inform decisions and reduce risk In addition the book discusses advancements in technology and data analytics with final sections covering the COVID 19 pandemic and how it has put greater emphasis on the importance of risk reliability and resilience in business operations This book provides a timely overview of measurement techniques and their application in operations management offering insights into future directions in this field Provides a comprehensive overview on the measurement of risk reliability and resilience in operations management Delves into the practical application of risk reliability and resilience management techniques in real world scenarios providing case studies and examples that demonstrate how businesses can effectively measure and manage these factors to make informed decisions Explores emerging trends technological advancements and potential developments that may impact risk measurement reliability and resilience *Assessing the Pharmacological Effects and Therapeutic Potential of Traditional Chinese Medicine in Neurological Disease Models: An Update* Jiahong Lu,Min Li,Juxian Song,2022-05-24

Geminifocus Gemini Observatory,2009-06 **Handbook of Research on the Applications of International Transportation and Logistics for World Trade** Ceyhun, Gökçe Çiçek,2019-12-06 In today s developing world international trade is a field that is rapidly growing Within this economic market traders need to implement new approaches in order to satisfy consumers rising demands Due to the high level of competition merchants have focused on developing new transportation and logistics strategies In order to execute effective transportation tactics decision makers need to know the fundamentals current developments and future trends of intercontinental transportation The Handbook of Research on the Applications of International Transportation and Logistics for World Trade provides emerging research exploring the effective and productive solutions to global transportation and logistics by applying fundamental and in depth knowledge together with current applications and future aspects Featuring coverage on a broad range of topics such as international regulations inventory management and distribution networks this book is ideally designed for logistics authorities trading companies logistics operators transportation specialists government officials managers policymakers researchers academicians and students **Handbook of Thermal Management Systems** Fethi Aloui,Edwin Geo Varuvel,Ankit Sonthalia,2023-08-24 Handbook of Thermal Management Systems e Mobility and Other Energy Applications is a comprehensive reference on the thermal management of key renewable energy sources and other electronic components With an emphasis on practical applications the book addresses thermal management systems of batteries fuel cells solar panels electric motors as well as a range of other electronic devices that are crucial for the development of sustainable

transport systems Chapters provide a basic understanding of the thermodynamics behind the development of a thermal management system update on Batteries Fuel Cells Solar Panels and Other Electronics provide a detailed description of components and discuss fundamentals Dedicated chapters then systematically examine the heating cooling and phase changes of each system supported by numerical analyses simulations and experimental data These chapters include discussion of the latest technologies and methods and practical guidance on their application in real world system level projects as well as case studies from engineering systems that are currently in operation Finally next generation technologies and methods are discussed and considered Presents a comprehensive overview of thermal management systems for modern electronic technologies related to energy production storage and sustainable transportation Addresses the main bottlenecks in the technology development for future green and sustainable transportation systems Focuses on the practical aspects and implementation of thermal management systems through industrial case studies real world examples and solutions to key problems

New Challenges to Ageing in the Rural North Päivi Naskali,Joan R. Harbison,Shahnaj Begum,2019-08-26 This book provides an underexplored view of ageing one that conceives older people as valuable resources in their communities as active citizens with both voice and an agency that includes the capacity for resistance It acknowledges that becoming old with dignity means also paying attention to caring good health services and the possibility of good death The book defines age and ageing as multiple culturally and historically constructed phenomena that are only loosely connected to the years of one s life In focusing on the peripheral North located in the Nordic Canadian and Russian north it highlights important questions and viewpoints that can be found and adapted to other rural areas The book answers the following questions What is the relevance of legislation and international legal agreements in ensuring the rights of elderly people under political and economic changes What challenges do geographic isolation changing age structure and cultural and ecological transformations pose to possibilities for meeting older people s needs for engagement in society as well as for their care As such this book will be of interest to all those working in population aging Improving Healthcare Quality in Europe Characteristics, Effectiveness and Implementation of Different Strategies OECD,World Health

Organization,2019-10-17 This volume developed by the Observatory together with OECD provides an overall conceptual framework for understanding and applying strategies aimed at improving quality of care Crucially it summarizes available evidence on different quality strategies and provides recommendations for their implementation This book is intended to help policy makers to understand concepts of quality and to support them to evaluate single strategies and combinations of strategies

Proceedings of the International Conference on Advances in Computational Mechanics 2017 Hung Nguyen-Xuan,Phuc Phung-Van,Timon Rabczuk,2018-02-20 This book provides an overview of state of the art methods in computational engineering for modeling and simulation This proceedings volume includes a selection of refereed papers presented at the International Conference on Advances in Computational Mechanics ACOME 2017 which took place on Phu

Quoc Island Vietnam on August 24 2017 The contributions highlight recent advances in and innovative applications of computational mechanics Subjects covered include biological systems damage fracture and failure flow problems multiscale multiphysics problems composites and hybrid structures optimization and inverse problems lightweight structures computational mechatronics computational dynamics numerical methods and high performance computing The book is intended for academics including graduate students and experienced researchers interested in state of the art computational methods for solving challenging problems in engineering

Unveiling the Power of Verbal Beauty: An Psychological Sojourn through **Hsc 2015 Suggestion**

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