

এইচ এস সি পরীক্ষা ২০১৯ এর মডেল প্রশ্ন (সকল বোর্ড এর জন্য)

জীববিজ্ঞান : প্রথম পত্র

বিষয় কোড :

১ ৭ ৮

সময়-২ ঘণ্টা ৩৫ মিনিট

সৃজনশীল প্রশ্ন

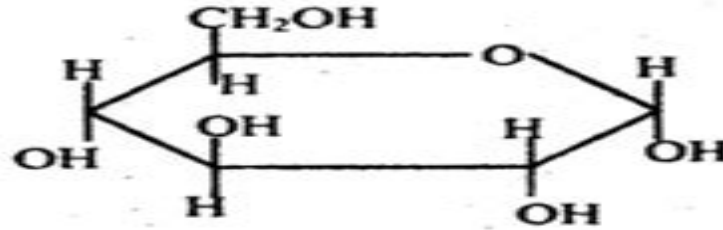
পূর্ণমান: ৫০

দ্রষ্টব্য : জন পাশের সচরা সচরে পুঁজির জায়গা। প্রশ্ন উদ্ভীপকগুলো মনোযোগ সহকারে পড় এবং সঠিকটি প্রত্যেকের উত্তর দাও। যে কোনো পাঁচটি প্রশ্নের উত্তর দিতে হবে।

১.► শিক্ষক মায়োসিস কোষ বিভাজন সম্পর্কে আলোচনা করছিলেন। তিনি প্রোফেজ-১ এর এমন এক উপ-পর্যায় নিয়ে আলোচনা করছিলেন যেখানে ক্রসিং ওভার ঘটে।

- ক. Cdk কী? ১
- খ. জেনেটিক কোড ব্যাখ্যা করো। ২
- গ. উদ্ভীপকে উল্লিখিত উপ-পর্যায়টির পূর্ববর্তী উপ-পর্যায় বর্ণনা করো। ৩
- ঘ. শিক্ষকের আলোচিত উপ-পর্যায়টির গুরুত্ব বিশ্লেষণ করো। ৪

২.►



যৌগ-A

- ক. প্রস্বেটিক গ্রুপ কী? ১
- খ. অ্যালবুমিন কী— ব্যাখ্যা করো। ২
- গ. ১নং কার্বনে OH গ্রুপের অবস্থান পরিবর্তন করলে পদার্থটির বৈশিষ্ট্য কীরূপ পরিবর্তন ঘটবে? ৩
- ঘ. মানবদেহে যৌগ-A এর পলিমারের গুরুত্ব বিশ্লেষণ করো। ৪
- ৩.► সোহান বিশুদ্ধ পানি পান করে না। একদিন সে প্রচণ্ড ডায়রিয়ায় আক্রান্ত হলো এবং বমি করতে লাগলো। তার দেহে পানিশূন্যতা দেখা দিলো।

বাকী পৃষ্ঠাগুলি নিচের লিঙ্কে ক্লিক করে ডাউনলোড করে পড়ুন।

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Cambridge Checkpoints HSC Biology 2017-19 Harry Leather, Jan Leather, 2016-06-28 This guide provides the most up to date exam preparation and revision for HSC biology students This has a strong focus on exam practice Systems Biology of Cell Signaling Zhike Zi, Jianhua Xing, Denis Tsygankov, 2022-02-17 Topic Editor Prof Xing is in collaboration with ATCC <https://www.atcc.org> on testing some of their cell lines in research All other Topic Editors declare no competing interests with regards to the Research Topic subject **The Soviet Journal of Developmental Biology**, 1991 **Computational Biology for Stem Cell Research** Pawan Raghav, Rajesh Kumar, Anjali Lathwal, Navneet Sharma, 2024-01-12 Computational Biology for Stem Cell Research is an invaluable guide for researchers as they explore HSCs and MSCs in computational biology With the growing advancement of technology in the field of biomedical sciences computational approaches have reduced the financial and experimental burden of the experimental process In the shortest span it has established itself as an integral component of any biological research activity HSC informatics in silico techniques such as machine learning genome network analysis data mining complex genome structures docking system biology mathematical modeling programming R Python Perl etc help to analyze visualize network constructions and protein ligand or protein protein interactions This book is aimed at beginners with an exact correlation between the biomedical sciences and in silico computational methods for HSCs transplantation and translational research and provides insights into methods targeting HSCs properties like proliferation self renewal differentiation and apoptosis Modeling Stem Cell Behavior Explore stem cell behavior through animal models bridging laboratory studies to real world clinical allogeneic HSC transplantation HSCT scenarios Bioinformatics Driven Translational Research Navigate a path from bench to bedside with cutting edge bioinformatics approaches translating computational insights into tangible advancements in stem cell research and medical applications Interdisciplinary Resource Discover a single comprehensive resource catering to biomedical sciences life sciences and chemistry fields offering essential insights into computational tools vital for modern research **Principles of Stem Cell Biology and Cancer** Tarik Regad, Thomas Sayers, Robert Rees, 2015-04-01 Principles of Stem Cell Biology and Cancer Future Applications and Therapeutics Tarik Regad The John van Geest Cancer Research Centre Nottingham Trent University UK Thomas J Sayers Centre for Cancer Research National Cancer Institute Frederick USA and Robert Rees The John van Geest Cancer Research Centre Nottingham Trent University UK The field of cancer stem cells is expanding rapidly with many groups focusing on isolating and identifying cancer stem cell populations Although some progress has been made developing efficient cancer therapies targeting cancer stem cells remains one of the important challenges facing the growing stem cell research community Principles of Stem Cell Biology and Cancer brings together original contributions from international experts in the field to present the very latest information linking stem cell biology and cancer Divided into two parts the book begins with a detailed introduction to stem cell biology with a focus on the characterization of these cells progress that has been

made in their identification as well as future therapeutic applications of stem cells The second part focuses on cancer stem cells and their role in cancer development progression and chemo resistance This section of the book includes an overview of recent progress concerning therapies targeting cancer stem cells Features An authoritative introduction to the link between stem cell biology and cancer Includes contributions from leading international experts in the field Well illustrated with full colour figures throughout This book will prove an invaluable resource for basic and applied researchers and clinicians working on the development of new cancer treatments and therapies providing a timely publication of high quality reviews outlining the current progress and exciting future possibilities for stem cell research

Encyclopedia of Bone Biology

,2020-06-26 Encyclopedia of Bone Biology Three Volume Set covers hot topics from within the rapidly expanding field of bone biology and skeletal research enabling a complete understanding of both bone physiology and its relation to other organs and pathophysiology This encyclopedia will serve as a vital resource for those involved in bone research research in other fields that cross link with bone such as metabolism and immunology and physicians who treat bone diseases Each article provides a comprehensive overview of the selected topic to inform a broad spectrum of readers from advanced undergraduate students to research professionals Chapters also explore the latest advances and hot topics that have emerged in recent years including the Hematopoietic Niche and Nuclear Receptors In the electronic edition each chapter will include hyperlinked references and further readings as well as cross references to related articles Incorporates perspectives from experts working within the domains of biomedicine including physiology pathobiology pharmacology immunology endocrinology orthopedics and metabolism Provides an authoritative introduction for non specialists and readers from undergraduate level upwards as well as up to date foundational content for those familiar with the field Includes multimedia features cross references and color images videos

The Biology and Therapeutic Application of Mesenchymal Cells Kerry

Atkinson,2016-11-08 The Biology and Therapeutic Application of Mesenchymal Cells comprehensively describes the cellular and molecular biology of mesenchymal stem cells and mesenchymal stromal cells describing their therapeutic potential in a wide variety of preclinical models of human diseases and their mechanism of action in these preclinical models Chapters also discuss the current status of the use of mesenchymal stem and stromal cells in clinical trials in a wide range of human diseases and disorders for many of which there are limited or no other therapeutic avenues Provides coverage on both the biology of mesenchymal stem cells and stromal cells and their therapeutic applications Describes the therapeutic potential of mesenchymal stem and stromal cells in a wide variety of preclinical models of human diseases and their mechanism of action in these preclinical models Discusses the current status of mesenchymal stem and stromal cells in clinical trials in a wide range of human diseases and disorders for many of which there are limited or no other therapeutic avenues Written and edited by leaders in the field The Biology and Therapeutic Application of Mesenchymal Cells is an invaluable resource for those studying stem cells cell biology genetics gene or cell therapy or regenerative medicine

Hematopoietic Stem Cell

Biology & Lineage Plasticity Kenneth Dorshkind, 2002

Oceanography and Marine Biology R. N. Gibson, R. J. A.

Atkinson, J. D. M. Gordon, 2007-06-20 Reflecting the increasing interest in the field and its relevance in global environmental issues *Oceanography and Marine Biology An Annual Review* provides authoritative reviews that summarize results of recent research in basic areas of marine research exploring topics of special and topical importance while adding to new areas as they arise This volume part of a series that regards the all marine sciences as a complete unit features contributions from experts involved in biological chemical geological and physical aspects of marine science Including a full color insert and an extensive reference list the text is an essential reference for researchers and students in all fields of marine science

Endothelial Progenitor Cells Carmela Rita Balistreri, 2017-05-25 This book explores the role of endothelial progenitor cells EPCs in the context of regenerative medicine RegMed In particular it reveals the value of RegMed as a new TM branch intended to improve the health and quality of life by restoring maintaining or enhancing tissue and functions of organs The book is divided into three chapters the first of which describes the relevance of translational medicine TM as a new research approach to counteract the imposing challenge of age related diseases Of the diverse RegMed approaches particular attention is paid to stem progenitor cell based therapies their benefits and shortcomings as well as to the description of types of stem and progenitor cells considered for regenerative cell therapies such as EPCs as emerging candidates for RegMed applications In turn the second chapter outlines the clinical relevance of EPCs as both potential predictors diagnostic and prognostic biomarkers of age related diseases and therapeutic agents discussing their advantages disadvantages and conflicting data Chapter three proposes a potential roadmap for revising the findings and creating a clearer picture of valid data which can provide support for various important aspects i e isolating and characterizing EPCs by establishing standardized criteria for EPC research identifying appropriate sub populations for cell therapy timing dosing priming of cells and defining delivery modes for different applications The book concludes with an overview of innovative strategies that could improve the efficacy of cell therapy at all levels including cell priming bio nanotechnology and tissue engineering

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Table of Contents Hsc Biology Suggestion In

1. Understanding the eBook Hsc Biology Suggestion In
 - The Rise of Digital Reading Hsc Biology Suggestion In
 - Advantages of eBooks Over Traditional Books
2. Identifying Hsc Biology Suggestion In
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Hsc Biology Suggestion In
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hsc Biology Suggestion In
 - Personalized Recommendations

- Hsc Biology Suggestion In User Reviews and Ratings
- Hsc Biology Suggestion In and Bestseller Lists
- 5. Accessing Hsc Biology Suggestion In Free and Paid eBooks
 - Hsc Biology Suggestion In Public Domain eBooks
 - Hsc Biology Suggestion In eBook Subscription Services
 - Hsc Biology Suggestion In Budget-Friendly Options
- 6. Navigating Hsc Biology Suggestion In eBook Formats
 - ePub, PDF, MOBI, and More
 - Hsc Biology Suggestion In Compatibility with Devices
 - Hsc Biology Suggestion In Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hsc Biology Suggestion In
 - Highlighting and Note-Taking Hsc Biology Suggestion In
 - Interactive Elements Hsc Biology Suggestion In
- 8. Staying Engaged with Hsc Biology Suggestion In
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hsc Biology Suggestion In
- 9. Balancing eBooks and Physical Books Hsc Biology Suggestion In
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hsc Biology Suggestion In
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Hsc Biology Suggestion In
 - Setting Reading Goals Hsc Biology Suggestion In
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Hsc Biology Suggestion In
 - Fact-Checking eBook Content of Hsc Biology Suggestion In

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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