

উচ্চমাধ্যমিক জীববিজ্ঞান ১ম পত্র

অধ্যায়-১: কোষ ও এর গঠন

প্রশ্ন-১ উদ্ভিদের এক প্রকার অঙ্গাণু খাদ্য তৈরি করে এবং অন্য প্রকার অঙ্গাণু রেশ বিপাকে ভূমিকা রাখে ও শক্তি উৎপন্ন করে থাকে।

সে কে? ২০১৮

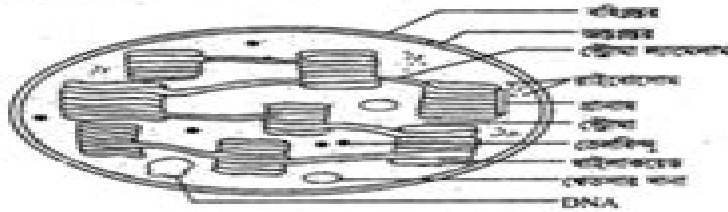
- ফুটবলি কী?
- অঙ্গাণু অঙ্গুরোদগম বলতে কী বোঝ?
- উদ্ভীপকের ১ম অঙ্গাণুর চিহ্নিত চিত্র আঁক।
- উদ্ভীপকের ১ম ও ২য় অঙ্গাণুর তুলনামূলক আলোচনা করো।

১ নং প্রশ্নের উত্তর

ক Agaricus-এর যে দেহাংশ মাটির উপরে দেখা যায় তাই ফুটবলি।

খ লবণাক্ত মাটিতে এবং জোয়ার ভাটার স্থানে বীজের এক স্থানে তিকে থাকা স্পোর। তাই বহু উদ্ভিদে পাচ্ছে থাকা অবস্থায়ই বীজের অঙ্গুরোদগম শুরু হয়ে লম্বা কৃৎসল সৃষ্টি হয়। এ ধরনের অঙ্গুরোদগমকে অঙ্গাণু অঙ্গুরোদগম বলা হয়। যেমন— সুন্দরী

গ উদ্ভীপকে উল্লিখিত ১ম অঙ্গাণুটি হলো ক্লোরোপ্লাস্ট যা সালোকসংশ্লেষণ প্রক্রিয়ার শর্করা জাতীয় খাদ্য প্রস্তুত করে। নিচে ক্লোরোপ্লাস্টের চিহ্নিত চিত্র অঙ্কন করা হলো—



চিত্র: ক্লোরোপ্লাস্টের বিভিন্ন অংশ

ঘ উদ্ভীপকে উল্লিখিত ২য় অঙ্গাণুটি হলো ক্লোরোপ্লাস্ট যা খাদ্য তৈরি করে এবং ২য় অঙ্গাণুটি হলো মাইটোকন্ড্রিয়া, যা রেশ বিপাকে ভূমিকা রাখে এবং শক্তি উৎপন্ন করে।

নিম্নে অঙ্গাণু দুটির তুলনামূলক আলোচনা করা হলো—

আবর্তনী ক্রি, ক্রোমা, থাইলাকয়েড, গ্রানাম, ক্রোমা ল্যামেলী ফটোসিনথেটিক ইউনিট, ATP সিনথেসিস এবং DNA এ অঙ্গাণুদ্বয় নিয়ে ক্লোরোপ্লাস্ট গঠিত হয়। অপরদিকে আবর্তনী ক্রি, গ্রানাম, ATP সিনথেসিস ও HTS, DNA ও রাইবোজোম এবং অন্যান্য উপাদান নিয়ে মাইটোকন্ড্রিয়া গঠিত। ক্লোরোপ্লাস্ট ও মাইটোকন্ড্রিয়া উভয়ই লিপোপ্রোটিন বাইলোয়ারের দুটি মেমব্রেন নিয়ে গঠিত।

উচ্চশ্রেণীর উদ্ভিদকোষে ক্লোরোপ্লাস্টের আকৃতি সাধারণত লেন্সের মতো, তবে নিম্নশ্রেণীর উদ্ভিদকোষে এরা পেয়ালাকৃত, সর্পিলাকার, জালিকাকার, তারকাকার, গোলাকার ইত্যাদি আকৃতিরও হতে পারে। অপরদিকে মাইটোকন্ড্রিয়া সাধারণত কুণ্ডলকার, নগ্নাকার, তরুকার, তারকাকার ও কুণ্ডলী আকার হতে পারে। লেন্স আকৃতির ক্লোরোপ্লাস্টের ব্যাস সাধারণত ৩-৫ মাইক্রন, কিছু কুণ্ডলকার মাইটোকন্ড্রিয়ার ব্যাস

০.২-২.০ মাইক্রন এবং স্ত্রাকার মাইটোকন্ড্রিয়ার ব্যাস ৪০-৭০ মাইক্রন। সাধারণত গড়ে প্রতিটি উচ্চ শ্রেণীর উদ্ভিদকোষে ১০-৪০টি ক্লোরোপ্লাস্ট থাকে। অপরদিকে গড়ে প্রতি কোষে ৩০০-৪০০টি মাইটোকন্ড্রিয়া থাকে। রাসায়নিকভাবে কার্বোহাইড্রেট, লিপিড, প্রোটিন, ক্লোরোফিল, ক্যারোটিনয়েড (ক্যারোটিন ও জ্যান্থোফিল) DNA, RNA, কিছু সংখ্যক এনজাইম ও কো-এনজাইম নিয়ে ক্লোরোপ্লাস্ট গঠিত। অপরদিকে মাইটোকন্ড্রিয়ার শূন্য ওজনের ৬৫% প্রোটিন, ২৯% রিসারাইড, ৪% লেসিথিন ও সেকালিন এবং ২% কোলেস্টেরল, লিপিডের মধ্যে ৯০% ফসফোলিপিড, বাকি ১০% ফ্যাটি অ্যাসিড, ক্যারোটিনয়েড, ভিটামিন E এবং কিছু অজৈব পদার্থ। ক্লোরোপ্লাস্ট খাদ্য সংশ্লেষে সাহায্য করে বলে একে কোষের স্ট্রাকচার বা শর্করা জাতীয় খাদ্যের কারখানা বলা হয়। এছাড়াও নিজের প্রয়োজনে প্রোটিন, নিউক্লিক অ্যাসিড তৈরি, ADP কে ATP তে রূপান্তর করা, ফটো-রেসপিরেশন করা ক্লোরোপ্লাস্টের অন্যতম কাজ। অপরদিকে কোষের যাবতীয় জৈবনিক কাজের শক্তি সরবরাহ করে বলে মাইটোকন্ড্রিয়াকে কোষের পাওয়ার হাউস বা শক্তির ঘর বলা হয়। এছাড়া শ্বসনের জন্য প্রয়োজনীয় এনজাইম, কো-এনজাইম ধারণ করা, শ্বসনের বিভিন্ন পদার্থ যেমন— ক্রেবস চক্র, ইলেকট্রন ট্রান্সপোর্ট, অক্সিডেটিভ ফসফোরাইলেশন ইত্যাদি কাজ মাইটোকন্ড্রিয়ার মাধ্যমে সম্পন্ন হয়।

২য় প্রশ্ন



- সোরাস কী?
- উপ্যাস প্রকৃতির জনন বলতে কী বোঝ?
- উদ্ভীপকের A ও B এর মধ্যে পার্থক্য লেখো।
- জীবের বৈশিষ্ট্য প্রকাশে A ও B এর ভূমিকা পূরুতপূর্ণ বিবেচনা করো।

২ নং প্রশ্নের উত্তর

ক Pteris উদ্ভিদের স্পোরোজিওম পুষ্টি হলো সোরাস।

খ যে যৌন জননে কৃৎসাকার নিউক্লি জৌ জনন কোষের সাথে অপেক্ষাকৃত ক্ষুদ্র সচল পুঞ্জজন কোষের মিলন ঘটে তাকে উপ্যাস প্রকৃতির জনন বলে। এ ধরনের জননে অংশগ্রহণকারী গ্যামিটকে বলা হয় মেটোজোপ্যামিটস। আইসোপ্যামাস, অ্যানাইসোপ্যামাস এবং উপ্যাস প্রকৃতির জননের মধ্যে উপ্যাস উন্নত প্রকৃতির। Oedogonium নামক পৈতাল উপ্যাস প্রকৃতির জনন দেখা যায়।

গ উদ্ভীপকের A হলো DNA এবং B হলো RNA। নিচে এদের মধ্যে পার্থক্য উল্লেখ করা হলো—

বৈশিষ্ট্য	DNA	RNA
১. জৌত গঠন	দ্বিসূত্রক, দুরানের সিঁড়ির মতো	একসূত্রক, শিকলের ন্যায়

বাকী পৃষ্ঠাগুলি নিচের লিঙ্কে ক্লিক করে ডাউনলোড করে পড়ুন।

Hsc Biology 1chapter Notes In

Harry Leather,Jan Leather



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Excel HSC Biology Diane Alford, Jennifer Hill, 2008 HSC Ancient History Peter Roberts, 2006 This comprehensive study guide covers every topic in the first two sections of the HSC Ancient History 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 This is the first of the two new Ancient History study guides Revision questions have been updated for the new HSC format Excel Ancient History Book 1 contains a chapter on every topic available in the first two sections of the HSC course Section I Personalities in their Times and Section II Ancient Societies an introductory section on how to use the book with an explanation of exam requirements revision questions in each chapter with answers and guidelines comprehensive bibliography and further reading lists key terms defined in each chapter plus a glossary of terms cross referencing between chapters for further information Also available is Excel Ancient History Book 2 which covers comprehensive coverage of Sections III and IV of the HSC course Section III Personalities in the Times and Section IV Historical Periods **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 *Excel HSC Biology Pocket Book* Elise Masters, 2004 **Excel Senior High School Information and Research Skills for Assessment Success** Ian Biddle, 2000 Contains articles by different authors including Ian Biddle Chris Greef Maree Herrett Debra Kelliher Rodney Lane Marshall Leaver Robert Mulas Sophie Mynott Cameron Paterson and Ross Todd Applies the Information Skills Process to the preparation of assessment tasks for the Biology Business Studies English Geography Modern History and Society and Culture HSC 2001 Syllabi *Excel HSC Economics* J. Buultjens, 2005 Contains comprehensive coverage of the new course chapter summaries research activities glossary of terms and useful websites **Social Reconstruction Learning** Jennifer Bleazby, 2013 This volume argues that educational problems have their basis in an ideology of binary opposites often referred to as dualism which is deeply embedded in all aspects of Western society and philosophy and that it is partly because mainstream schooling incorporates dualism that it is unable to facilitate the thinking skills dispositions and understandings necessary for autonomy democratic citizenship and leading a meaningful life Drawing on the philosophy of John Dewey feminist pragmatism Matthew Lipman's Philosophy for Children program and the service learning movement Bleazby proposes an approach to schooling termed social reconstruction learning in which students engage in philosophical inquiries with members of their community in order to reconstruct real social problems arguing that this pedagogy can better facilitate independent thinking imaginativeness emotional intelligence autonomy and active citizenship *Methods in Stem Cell Biology - Part B*, 2022-08-09 *Methods in Cancer Stem Cell Biology Part B* Volume 171 in the *Methods in Cell Biology* series highlights advances in the field with this new volume presenting interesting chapters on timely topics including Orthotopic brain tumor models derived from glioblastoma stem like cells RNA sequencing in hematopoietic stem cells Generation of

inducible pluripotent stem cells from human dermal fibroblasts In vitro preparation of dental pulp stem cell grafts combined with biocompatible scaffolds for tissue engineering Gene expression knockdown in chronic myeloid leukemia stem cells Identification and isolation of slow cycling GSCs Assessment of CD133 EpCAM and much more Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Methods in Cell Biology series Includes the latest information on the topic of Methods in Cancer Stem Cell Biology Excel Preliminary Business Studies Louise Fleming, 2004-10 Contains a comprehensive summary of the entire course activities glossary of terms and a list of websites **Septins**, 2016-07-26 Septins provides established septin and molecular and developmental biologists and researchers new to the field with proven state of art techniques and relevant historical background and theory to aid efficient design and effective implementation of experimental methodologies Topics include the purification of septin proteins from diverse systems their visualization in live cells and their analysis by a variety of cutting edge microscopy approaches Provides the latest information on septins Includes both established and new technologies Brings together specialists from the field who contribute their expertise The A.M.A., 1941 *Cambridge Checkpoints Preliminary Biology* Harry Leather, Jan Leather, 2011-04 Cambridge Checkpoints HSC provides the most up to date exam preparation and revision for HSC students **Society and Museum** George F. Goodyear, 1994 **Best Life**, 2008-04 Best Life magazine empowers men to continually improve their physical emotional and financial well being to better enjoy the most rewarding years of their life **Human Biochemistry** Gerald Litwack, 2021-11-28 Selected for Doody's Core Titles 2024 in Biochemistry Human Biochemistry Second Edition provides a comprehensive pragmatic introduction to biochemistry as it relates to human development and disease Here Gerald Litwack award winning researcher and longtime teacher discusses the biochemical aspects of organ systems and tissue cells proteins enzymes insulins and sugars lipids nucleic acids amino acids polypeptides steroids and vitamins and nutrition among other topics Fully updated to address recent advances the new edition features fresh discussions on hypothalamic releasing hormones DNA editing with CRISPR new functions of cellular prions plant based diet and nutrition and much more Grounded in problem driven learning this new edition features clinical case studies applications chapter summaries and review based questions that translate basic biochemistry into clinical practice thus empowering active clinicians students and researchers Presents an update on a past edition winner of the 2018 Most Promising New Textbook College Award Texty from the Textbook and Academic Authors Association and the PROSE Award of the Association of American Publishers Provides a fully updated resource on current research in human and medical biochemistry Includes clinical case studies applications chapter summaries and review based questions Adopts a practice based approach reflecting the needs of both researchers and clinically oriented readers **Guide to Techniques in Mouse Development, Part A**, 2010-08-04 Guide to Techniques in Mouse Development Part A comprehensively covers new technologies and methodologies that have appeared for the study of mouse development Update of volume 225 of

Methods in Enzymology Guide to Techniques in Mouse Development edited by P M Wassarman and M L DePamphilis and published in 1993 Covers new technologies and methodologies including new techniques for the cryopreservation of gametes and embryos production of transgenic and null knockout animals use of ES cells generation of conditional inducible mutant animals use of gene trap mutagenesis analysis of allele specific expression use of new reporter constructs humanizing of transgenic animals transcript profiling of mouse development imaging of mouse development rederivation of animals and use of mouse genomics

The Singularity Is Near Ray Kurzweil, 2005-09-22 NEW YORK TIMES BESTSELLER Celebrated futurist Ray Kurzweil hailed by Bill Gates as the best person I know at predicting the future of artificial intelligence presents an elaborate smart and persuasive The Boston Globe view of the future course of human development Artfully envisions a breathtakingly better world Los Angeles Times Startling in scope and bravado Janet Maslin The New York Times An important book The Philadelphia Inquirer At the onset of the twenty first century humanity stands on the verge of the most transforming and thrilling period in its history It will be an era in which the very nature of what it means to be human will be both enriched and challenged as our species breaks the shackles of its genetic legacy and achieves inconceivable heights of intelligence material progress and longevity While the social and philosophical ramifications of these changes will be profound and the threats they pose considerable The Singularity Is Near presents a radical and optimistic view of the coming age that is both a dramatic culmination of centuries of technological ingenuity and a genuinely inspiring vision of our ultimate destiny

Immuno-oncology and immunotherapy Part C, 2025-01-21 Immuno oncology and immunotherapy Part C Volume 191 in the Methods in Cell Biology series highlights new advances in the field with this new volume presenting interesting chapters on a variety of timely topics including Extraction and quantification of histones from human cells Expression and characterization of Phosphatidylserine targeting antibodies for biochemical and therapeutic applications ILC differentiation from HSCs in vitro Methods to expand human Treg cells and assay their function Monitoring rapid activation of human gamma delta T cells by multicolor flow cytometry Methods to induce T cell exhaustion in vitro Ex vivo assessment of human neutrophil motility and migration and much more Additional chapters focus on Flow cytometry based monitoring of myeloid derived suppressor cells in the peripheral blood of patients with solid tumors Deciphering human blood and tumor neutrophil heterogeneity Methods for isolation and assessing suppression of T cell proliferation Splenocyte anticancer cytotoxicity assessment after prophylactic vaccination or drug treatment of tumor bearing mice Therapeutic treatment of tumor bearing mice with drug killed cancer cells a method to confirm immunogenic cell death and assess its therapeutic effectiveness and much more Authored by established and active cell biologists and immunologist and drawn from international sources Includes in depth coverage and detailed protocols Present a highly specialized group of topics that delve deep into new updates and future prospects

The Biology and Therapeutic Application of Mesenchymal Cells, 2 Volume Set Kerry Atkinson, 2017-01-17 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

5-HTP Michael Murray, 1999-06-01 The most authoritative and comprehensive guide to realizing the amazing health benefits of 5 HTP Written by one of America's leading naturopathic doctors 5 HTP explains how this natural amino acid can safely and effectively regulate low serotonin levels which have been linked to depression obesity insomnia migraines and anxiety 5 HTP is also a powerful antioxidant that can protect the body from free radical damage reducing the risk of serious illnesses such as cancer 5 HTP has already helped thousands and Dr Murray citing extensive scientific studies and case histories shows how this groundbreaking supplement can help you

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