

Time : 3 hrs.]**Note :** (1) All questions are compulsory.

(2) Answers to the question in Section - I and Section - II should be written in TWO separate answer books.

(3) Questions from Section - I attempted in the answer book of Section - II and vice-versa will not be assessed / not given any credit.

(4) Draw neat and well labelled diagrams wherever necessary.

(5) Figures to the right indicate full marks.

(6) Answer to every new question must be started on a new page.

SECTION - I**BOTANY****Q. 1. Select and write the most appropriate answer from the given alternatives for each sub-question :****[7]**

- (i) A cross used to verify the unknown genotype of F₁ hybrid is a _____ cross.
(a) test (b) back (c) dihybrid (d) monohybrid
- (ii) Appearance of new combinations in F₂ generation in a dihybrid cross proves the law of _____.
(a) dominance (b) segregation
(c) independent assortment (d) purity of gametes
- (iii) A fine powder of recycled modified plastic is known as _____.
(a) polyblend (b) polythene (c) polyester (d) polymer
- (iv) The partially decomposed organic matter is formed by a process called _____.
(a) fragmentation (b) humification (c) mineralization (d) leaching
- (v) Transfer of genetic material into a bacterial cell through a viral vector is known as _____.
(a) transformation (b) transduction (c) transfection (d) translation
- (vi) If the number of chromosomes in an endosperm cell is 27, what will be the chromosome number in the definitive nucleus?
(a) 9 (b) 18 (c) 27 (d) 36
- (vii) Lever mechanism of pollination is observed in _____.
(a) Salvia (b) Jasmine (c) Bougainvillea (d) Butea

Q. 2.(A) Answer in 'one' sentence each :**(6) [12]**

- (i) A pea plant pure for yellow seed colour is crossed with a pea plant pure for green seed colour. In F₁ generation, all pea plants were with yellow seeds. Which law of Mendel is applicable?
- (ii) Name the enzyme responsible for delay in ripening of tomato fruit.
- (iii) Which are the bacteria responsible for converting organic acids into methane?
- (iv) Name the high yielding semi-dwarf varieties of wheat selected and introduced in India in 1963.
- (v) 'Formation of primary endosperm nucleus is called triple fusion'. Give reason.
- (vi) Mention any 'two' ecological services for the benefit of mankind.

Q. 2.(B) Sketch and label 'tubular tower fermenter'.**(2)**

Hsc Biology Chapters 2015

AW Rasmussen



Hsc Biology Chapters 2015:

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 **Essential Current Concepts in Stem Cell Biology** Beate Brand-Saberi, 2020-01-03 This textbook describes the biology of different adult stem cell types and outlines the current level of knowledge in the field It clearly explains the basics of hematopoietic mesenchymal and cord blood stem cells and also covers induced pluripotent stem cells Further it includes a chapter on ethical aspects of human stem cell research which promotes critical thinking and responsible handling of the material Based on the international masters program Molecular and Developmental Stem Cell Biology taught at Ruhr University Bochum and Tongji University Shanghai the book is a valuable source for postdocs and researchers working with stems cells and also offers essential insights for physicians and dentists wishing to expand their knowledge This textbook is a valuable complement to *Concepts and Applications of Stem Cell Biology* also published in the Learning Materials in Biosciences textbook series **Blumgart's Surgery of the Liver, Pancreas and Biliary Tract E-Book** William R. Jarnagin, 2016-10-10 Extensively revised with new illustrations new clinical photos this classic text remains the most comprehensive and up to date resource on surgery of the hepatobiliary and pancreatic region Dr William Jarnagin and his team of internationally recognized surgeons continue the Blumgart's tradition of excellence bringing you the latest advances in diagnostic and surgical techniques You ll find updates on the newest minimally invasive surgeries new interventional diagnostic techniques and complete coverage of all relevant diseases including those seen in the tropics Considers all worldwide opinions and approaches to management and includes key data on surgical outcomes to better inform your clinical decision making Covers exactly what you need to know balancing basic science with information on clinical practice Presents cutting edge guidance on pathology diagnostics surgery and non operative intervention of the liver biliary tract and pancreas in a single comprehensive reference Covers the most recent non surgical therapies for pancreatic cancer microwave ablation and other emerging technologies Brings you up to date with recent developments in transplantation minimally invasive surgery percutaneous devices pre and post care blood transfusion and surgical techniques for the spleen Features an extensively revised art and illustration program with new anatomical line drawings including hundreds now in color more than 750 new clinical photos more schematic diagrams that summarize information and new graphs and algorithms throughout

Principles of Bone Biology John P. Bilezikian, T. John Martin, Thomas L. Clemens, Clifford Rosen, 2019-08-22 Preface from the first edition 1996 The world of modern science is undergoing a number of spectacular events that are redefining our understanding of ourselves As with any revolution we should take stock of where we have been where we are and where we are going Our special world of bone biology is participating in and taking advantage of the larger global revolution in modern science we assembled experts from all over the world and asked them to focus on the current state of knowledge and the

prospects for new knowledge in their area of expertise To this end Principles of Bone Biology was conceived John P Bilezikian Lawrence G Raisz Gideon A Rodan Praise for the previous edition Students teachers and practitioners will benefit from reading it and investigators will use it as a reference work it will certainly be consulted frequently The New England Journal of Medicine For over two decades Big Gray has been the go to repository of knowledge in the disciplines related to bone and mineral metabolism The fourth edition is a must have for students new to the field young investigators at the graduate or postgraduate level beginning their research careers established scientists who need to keep up with the changing nature of the field looking to enrich their own research programs or who are changing their career direction clinicians who want ready access to up to date relevant basic science This new edition builds on the successful formula from previous editions taking the reader from the basic elements of fundamental research to the most sophisticated concepts in therapeutics Principles of Bone Biology Fourth Edition provides the most comprehensive authoritative reference on the study of bone biology and related diseases Bone research continues to generate enormous attention due to the broad public health implications of osteoporosis and related bone disorders This classic fully updated two volume reference is designed for anyone involved in the study of bone biology Provides a one stop shopping paradise Anything you want to find about bone biology is here and written by the world s experts THE essential resource for anyone involved in the study of the skeleton and metabolic bone diseases Covers everything from the basic scientific concepts to the underlying principles of therapeutics and management Allows readers to easily search and locate information quickly in the online format Volumes include Basic Principles Molecular Mechanisms of Metabolic Bone Disease Pharmacological Mechanisms of Therapeutics Methods in Bone Research

Pericyte Biology in Different Organs Alexander Birbrair, 2019-04-01 The present book is an attempt to describe the most recent developments in the area of pericyte biology which is one of the emergent hot topics in the field of molecular and cellular biology today Here we present a selected collection of thirteen detailed chapters on what we know so far about pericytes in distinct organs in physiological and pathological conditions Further it provides an update on the most novel functions attributed to these cells and will introduce a newer generation of researchers and scientists to the importance of these cells ranging from their discovery in different organs through current state of the science It will be invaluable for both advanced cell biology students as well as researchers in cell biology stem cells and vascular research This volume explores pericytes physiologic roles in different tissues ranging from the pancreas lungs and liver through skeletal muscle gut retina and more Together with its companion volumes *Pericyte Biology in Disease* and *Pericyte Biology Novel Concepts* *Pericyte Biology in Different Organs* presents a comprehensive update on the latest information and most novel functions attributed to pericytes To those researchers newer to this area it will be useful to have the background information on these cells unique history It will be invaluable for both advanced cell biology students as well as researchers in cell biology stem cells and researchers or clinicians involved with specific organs Biodiversity and Biomedicine Munir Ozturk, Difuza

Egamberdieva, Milica Pešić, 2020-07-15 *Biodiversity and Biomedicine Our Future* provides a new outlook on Earth's animal, plant, and fungi species as vital sources for human health treatments. While there are over 10 million various species on the planet, only 2 million have been discovered and named. This book identifies modern ways to incorporate Earth's species into biomedical practices and emphasizes the need for biodiversity conservation. Written by leading biodiversity and biomedical experts, the book begins with new insights on the benefits of biologically active compounds found in fungi and plants, including a chapter on the use of wild fruits as a treatment option. The book goes on to discuss the roles of animals such as amphibians and reptiles and how the threatened presence of these species must be reversed to conserve biodiversity. It also discusses marine organisms, including plants, animals, and microbes, as essential in contributing to human health. *Biodiversity and Biomedicine Our Future* is a vital source for researchers and practitioners specializing in biodiversity and conservation studies. Students in natural medicine and biological conservation will also find this useful to learn of the world's most bio-rich communities and the molecular diversity of various species. Presents new developments in documenting and identifying species for biodiversity conservation and ethical considerations for biodiversity research. Examines biodiversity as an irreplaceable resource for biomedical breakthroughs using available species for medical research. Discusses challenges and opportunities for biodiversity protection and research in biosphere reserves.

Progress in Mathematical Ecology Sergei Petrovskii, 2018-12-07 This book is a printed edition of the Special Issue *Progress in Mathematical Ecology* that was published in *Mathematics*.

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 and videos.

Morphology of Blood Disorders Giuseppe d'Onofrio, Gina Zini, 2014-10-29 *Morphology of Blood Disorders* 2nd edition is an outstanding atlas with over 800 high-quality digital images covering the whole spectrum of blood and bone marrow morphology, with particular emphasis on malignant haematology. Originally written in the Italian language by two world leaders in the field, the book has

been expertly translated by the renowned haematologist and teacher Barbara Bain This book explores the major topics of haematological pathology blending classical teaching with up to date WHO classification and terminology Each image in this book is derived from material obtained for diagnostic purposes from patients with serious haematological conditions Morphological details are supplemented by detailed descriptions of the output and role of automated instruments in disorders of the blood Morphology of Blood Disorders 2nd edition is an essential reference source for diagnosis in the haematology laboratory designed to be the go to guide for anyone with an interest in blood cell morphology **Thomas' Hematopoietic Cell Transplantation, 2 Volume Set** Stephen J. Forman, Robert S. Negrin, Joseph H. Antin, Frederick R. Appelbaum, 2016-12-27 Fully revised for the fifth edition this outstanding reference on bone marrow transplantation is an essential field leading resource Extensive coverage of the field from the scientific basis for stem cell transplantation to the future direction of research Combines the knowledge and expertise of over 170 international specialists across 106 chapters Includes new chapters addressing basic science experiments in stem cell biology immunology and tolerance Contains expanded content on the benefits and challenges of transplantation and analysis of the impact of new therapies to help clinical decision making Includes a fully searchable Wiley Digital Edition with downloadable figures linked references and more References for this new edition are online only accessible via the Wiley Digital Edition code printed inside the front cover or at www.wiley.com/go/forman_hematopoietic *Immunology of Endometriosis* Kaori Koga, 2021-12-01 Immunology of Endometriosis Etiology and Management a volume in the Reproductive Immunology series provides updates on one of most common gynecological diseases including basic science concepts and their clinical applications related to endometriosis immunology Various immunological factors are believed to play roles in the pathogenesis of endometriosis providing potential targets for the disease Endometriosis is now considered to be a disease of both endocrine and immune dysregulation However recognition of the direct involvement of two major physiological mechanisms brings about a change of focus which might represent an interesting advance in the understanding of this disease and new focus for further research Provides detailed immunological background to help readers understand etiology and management of endometriosis Evaluates various immunological factors that are involved in the pathogenesis of endometriosis Presents a detailed evaluation of the knowledge related to each immune cell type in endometriosis **Brocklehurst's Textbook of Geriatric Medicine and Gerontology E-Book** Howard M. Fillit, Kenneth Rockwood, John B Young, 2016-05-06 The leading reference in the field of geriatric care Brocklehurst's Textbook of Geriatric Medicine and Gerontology 8th Edition provides a contemporary global perspective on topics of importance to today's gerontologists internal medicine physicians and family doctors An increased focus on frailty along with coverage of key issues in gerontology disease specific geriatrics and complex syndromes specific to the elderly makes this 8th Edition the reference you'll turn to in order to meet the unique challenges posed by this growing patient population Consistent discussions of clinical manifestations diagnosis prevention treatment

and more make reference quick and easy More than 250 figures including algorithms photographs and tables complement the text and help you find what you need on a given condition Clinical relevance of the latest scientific findings helps you easily apply the material to everyday practice A new chapter on frailty plus an emphasis on frailty throughout the book addresses the complex medical and social issues that affect care and the specific knowledge and skills essential for meeting your patients complex needs New content brings you up to date with information on gerontechnology emergency and pre hospital care HIV and aging intensive treatment of older adults telemedicine the built environment and transcultural geriatrics New editor Professor John Young brings a fresh perspective and unique expertise to this edition **Hematology**

E-Book Ronald Hoffman, Edward J. Benz, Leslie E. Silberstein, Helen Heslop, Jeffrey Weitz, Mohamed E. Salama, 2022-10-27 Extensively revised comprehensive content from leading global contributors ensures that Hematology 8th Edition remains your 1 choice for expert guidance in all areas of this rapidly advancing subspecialty This edition reflects the numerous advances that are redefining the field and dramatically influencing new approaches to diagnosis treatment and outcomes Well illustrated and clinically focused it details the basic science and clinical practice of hematology and hematopoietic cellular therapy covering virtually all aspects of hematology in one definitive resource Covers all hematologic disorders including comprehensive discussions of hematologic malignancies individualized patient care cell based therapies transplantation transfusion medicine hemostasis thrombosis and consultative hematology in one convenient volume Provides state of the art guidance from global experts at the forefront of the latest research and clinical practice Provides extensive updates throughout on basic science research advances in molecular diagnostics new drugs immunotherapies personalized medicine laboratory medicine transfusion medicine stem cell transplantation and clinical treatment for all hematologic malignancies and non malignancies Contains new chapters on gene editing the impact of mitochondria on hematopoiesis myelodysplastic syndrome myeloproliferative neoplasm overlap syndromes immunotherapy and management of its toxicities transfusion medicine in sickle cell disease principles of radiation therapy and COVID 19 including complications of vaccination and its impact on the hematologic system Discusses many new advances in the field including details and the future of gene therapy for hemophilia gene editing for sickle cell disease and thalassemia the evolution of cellular therapy use of cells transfusion medicine vs protein therapy gene sequencing immunotherapy and new targeted drugs Includes more decision making algorithms for formulating diagnoses and personalized treatment plans for those highly complex disorders that require individualized approaches Addresses the effects of aging on hematopoiesis and on the manifestations of a variety of hematologic disorders Discusses cardio oncology and its impact on the treatment of patients with hematologic disorders Presents relevant basic science as background for clinical application in later sections An eBook version is included with purchase The eBook allows you to access all of the text figures and references with the ability to search customize your content make notes and highlights and have content read aloud *Zebrafish, Medaka, and Other Small Fishes* Hiromi

Hirata, Atsuo Iida, 2018-10-10 This book provides cutting edge studies and technologies using small fishes including zebrafish medaka and other fishes as new model animals for molecular biology developmental biology and medicine It also introduces eccentric fish models that are pioneering new frontiers of biology Zebrafish and medaka have been developed as lower vertebrate model organisms because these small fish are easy to raise in the laboratory and are useful for the live imaging of the morphology and activity of cells and tissues in intact animals By virtue of those specific advantages fish studies have demonstrated the common features of vertebrates and raised further questions toward understanding the mystery of life The book consists of four parts Development and Cell Biology Homeostasis and Reproduction Clinical Models and Eccentric Fish Together they describe the core area of small fish study often considered mere zoology but which is actually proving to be the universal basis of life Written by leading scientists the book helps readers to understand small fishes inspires scientists to utilize small fishes in their studies and encourages anyone who wants to participate in the large and fantastic world of small fish

Postgraduate Haematology A. Victor Hoffbrand, Douglas R. Higgs, David M. Keeling, Atul B. Mehta, 2016-01-19 This comprehensive textbook is the key resource for postgraduate trainees or residents in haematology Now in its seventh edition the book continues to provide everything the reader needs for examination preparation or clinical practice Postgraduate Haematology discusses up to date knowledge of the pathogenesis clinical and laboratory features management and treatment of a wide range of blood and bone marrow disorders in a concise and user friendly style It presents essential information for everyday use and teaching as well more detailed scientific background for more in depth reading accompanied by thoughtful referencing The clearly illustrated full colour figures and charts demonstrate key facts and are supplemented by numerous high quality photomicrographs of blood cells and tissues Over 51 chapters from international authors including the WHO Classification of Haematopoietic and Lymphoid Tissues Postgraduate Haematology provides an expert review of malignant and non malignant haematology New sections reflect advances in the specialty e g knowledge gained from new generation sequencing latest anticoagulant drugs diagnostic laboratory tools and treatment strategies Superb four color illustrations and photomicrographs of blood cells and tissues throughout Includes algorithms to aid with decision making for treatment Companion website featuring figures and tables from the book Arm yourself with the textbook of choice for trainees and practitioners in haematology

The Zebrafish: Genetics, Genomics, and Transcriptomics, 2016-07-16 The Zebrafish Genetics Genomics and Transcriptomics Fourth Edition is the latest volume in the Methods in Cell Biology series that looks at methods for the analysis of genetics genomics and transcriptomics of Zebrafish Chapters cover such topics as gene trap mutagenesis genetic Screens for mutations gene editing in zebrafish homologous gene targeting genome wide RNA tomography and developmental epigenetics and the zebrafish interactome Covers sections on model systems and functional studies imaging based approaches and emerging studies Presents chapters written by experts in the field Contains cutting edge material on the topic

Hematopoietic Stem Cells Louis M. Pelus, Jonathan Hoggatt, 2022-10-18 This detailed volume

collects updates on the technical advances in hematopoietic stem cell research and incorporates new techniques focused on the molecular genetic cellular and whole organism levels Exploring methods that apply stress to hematopoiesis the book also contains chapters focused on better understanding the role of hematopoietic niches and their cellular components as well as in vivo models that test and quantitate stem cell function and are key to further development of therapeutic applications Written for the highly successful Methods in Molecular Biology series chapters include introductions to their respective topics lists of the necessary materials and reagents step by step and readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Authoritative and up to date Hematopoietic Stem Cells Methods and Protocols serves as a valued addition to laboratories focused on understanding hematopoietic stem cell biology and the therapeutic advances that can be derived from it

MicroRNA in Regenerative Medicine Chandan K. Sen, 2014-11-26 This work encapsulates the uses of miRNA across stem cells developmental biology tissue injury and tissue regeneration In particular contributors provide focused coverage of methodologies intervention and tissue engineering Regulating virtually all biological processes the genome's 1048 encoded microRNAs appear to hold considerable promise for the potential repair and regeneration of tissues and organs in future therapies In this work 50 experts address key topics of this fast emerging field Concisely summarizing and evaluating key findings emerging from fundamental research into translational application they point to the current and future significance of clinical research in the miRNA area Coverage encompasses all major aspects of fundamental stem cell and developmental biology including the uses of miRNA across repair and regeneration and special coverage of methodologies and interventions as they point towards organ and tissue engineering Multi colour text layout with 150 colour figures to illustrate important findings Take home messages encapsulate key lessons throughout text Short chapters offer focused discussion and clear voice

Recent Advancements in Microbial Diversity Jae Youl Cho, 2022-03-18 In recent years researchers around the globe have deep dived into the fascination world of the Macrophage and its diverse role in tissue development angiogenesis and wound healing and above all the untapped mystery of the wondering immune system within our body Macrophages and their role in inflammation includes all the latest information of macrophages and inflammation as well as it provides an in depth understanding of this complex and rapidly progressing field of study Outlines the role of macrophages in inflammation Contains chapters by leading authors on the basic and translational aspects of macrophage biology Deals with internal and external treats

Uterine Cancer Franco Muggia, Alessandro D. Santin, Esther Oliva, 2018-11-21 There are more than 63 000 new cases of uterine and endometrial cancer each year in the United States up from approximately 41 000 when the first edition of Uterine Cancer was published in 2009 A book focusing on these cancers was timely with emergent sophistication in diagnosis increasingly impacting clinical decision making However five years later the need for an updated book on this topic is even stronger as oncologists recognize opportunities to impact the outcome on women that are increasingly diagnosed with these malignancies Uterine Cancer Screening Diagnosis and

Treatment Second Edition part of the Current Clinical Oncology series enhances the awareness on this somewhat neglected area of therapeutics helping to integrate targeted therapies into the management of women with uterine cancer Written by experts in the field in a highly practical and comprehensive manner it is a must have for all gynecological residents and fellows as well as gynecological oncologists medical oncologists radiation oncologists and family practice doctors who wish to provide their patients with the best possible care

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