

COLLEGE OF AGRICULTURE, JNKVV, JABALPUR
MID-TERM EXAMINATION 2023-24

Subject: Fundamentals of Genetics
Date of Exam: 05-08-2024

Class: B. Sc. (Ag.), I Year, II Sem.
Max Marks: 30, Duration: 1 hrs.

Name of student

Enrollment No.

A. Multiple choice questions

10 marks (01 marks each)

1. The giant chromosome found in insects is
[a] **Polytene chromosome** [b] Lampbrush chromosome
[c] Philadelphia chromosome [d] X- chromosome
2. The involvement of centromere with each arm having one double-stranded break
[a] Paracentric inversion [b] **Pericentric inversion**
[c] Telocentric inversion [d] Metacentric inversion
3. Formation of seed without fertilization is known as
[a] Parthenocary [b] Partenogenesis
[c] **Aposixis** [d] Sexual reproduction
4. The long arms of two acrocentric chromosomes fuse together to form single chromosome
[a] Deletion [b] Inversion
[c] Duplication [d] **Robertsonian translocation**
5. Test cross ratio for duplicate gene action
[a] 1:1 [b] 3:1
[c] 1:2:1 [d] 1:1:1:1
6. Mendel worked in century
[a] 17th [b] 18th
[c] **19th** [d] 20th
7. Mitotic cell division was first described by
[a] Watson [b] Roberts
[c] Johnson [d] **Fleming**
8. If a plant with genotype AaBb is self-fertilized, the probability of getting AABB genotype will be (A and B are not linked)
[a] 1/2 [b] 1/4
[c] **1/16** [d] 1/8
9. When the activity of one gene is suppressed by the activity of a non-allelic gene, it is known as
[a] Pseudo-dominance [b] Hypostasis
[c] Incomplete dominance [d] **Epistasis**
10. V-shaped chromosomes are
[a] **Metacentric** [b] Acrocentric
[c] Telocentric [d] Sub-metacentric
11. Crossing over takes place in stage
[a] Leptotene [b] Zygotene
[c] **Pachytene** [d] Diplotene
12. A cell without a cell wall is called
[a] Plastid [b] **Protoplast**
[c] Chloroplast [d] Chromoplast
13. Chromosomal theory of inheritance was proposed by
[a] Darwin [b] Mendel
[c] **Sutton & Boveri** [d] Lamarck
14. Alternative form of a gene is known as
[a] Locus [b] Genome
[c] **Allele** [d] Gamete
15. Loops are observed in
[a] B- chromosome [b] X- chromosome
[c] **Polytene chromosome** [d] **Lampbrush chromosome**

B. Explain in Brief

15 marks (03 marks each)

1. Differentiate between meiosis and mitosis.
2. Chromosomal aberration.
3. What is chromosome and its classification?
4. Law of independent assortment.
5. Incomplete dominance with example.

Fundamentals Of Genetics Answers

Lauren Gardner



Fundamentals Of Genetics Answers:

Fundamentals of Genetics Peter J. Russell, 2000 Fundamentals of Genetics Second Edition provides a concise easy to read introduction to genetics Based on the author s best selling Genetics Fifth Edition the text is carefully crafted to present full coverage of the subject without overwhelming students with details and complex explanations A friendly writing style complements Russell s effective step by step problem solving approach which guides students to an understanding of principles and concepts Fundamentals of Genetics Second Edition is particularly ideal for students who have a limited background in biology or chemistry or for briefer courses in which there is little time for advanced topics A greatly expanded supplements package now accompanies the text

na , Fundamentals of Cell Biology, Genetics, Molecular Biology, Evolution, and Ecology Dr. Pravin Joshi, Dr. Chandrashekhar R. Kasar, Dr. Prashant J. Awate, Dr. V. Sreedevi, 2024-07-29 Cell Biology Genetics Biochemistry of Pre Clinical Students provides undergraduate medical students with core understanding in genetics cell biology and biochemistry Cell Biology is the study of one of biology s most basic and intricate structures the cell The cell is the fundamental unit of life with all structural and functional qualities necessary for survival The book is organised into ten chapters starting with the origins of biological systems finishing with instruments for studying cells We ve done our best to include most current data The quantity of images in each chapter is sufficient This book can be used as a reference for anyone interested in learning the foundations of cell biology specifically the origin organisation and functions of subcellular components and cell types or it can be used as a basic textbook for students studying molecular biology genetics biochemistry agriculture and biotechnology This book also provides deep analysis of mendelian genetics and his experiments with including genetic engineering and biotechnolgy The study of genetics sometimes referred to as Science of Heredity focusses on biological information and how it is passed down through successive generations and how it is employed Three primary subfields of genetics research exist population genetics molecular genetics transmission genetics The main topic of discussion in this introductory course is Transmission often known as Classical Genetics which addresses the fundamentals of heredity and the methods by which characteristics are handed down from one generation to the next Since Gregor Mendel s work is essential to Transmission Genetics a discussion of his groundbreaking work and Mendel s Laws as they apply to inheritance takes place The organisation of genes on chromosomes physical mapping of genes and the connection among chromosomes and heredity are among the other facets of classical genetics that are discussed

Synthetic Biology, Genetics and Advanced Topics Edenilson Brandl, Synthetic Biology is a scientific discipline that has the potential to revolutionize the way we understand and manipulate life Combining knowledge from biology genetics engineering and computing Synthetic Biology opens up new possibilities for creating personalized biological systems with applications ranging from regenerative medicine to the production of biofuels In this book we will explore the principles techniques and applications of synthetic biology with the aim of providing a

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Concepts in Biology' 2007 Ed.2007 Edition , *Alcamo's Fundamentals of Microbiology* Jeffrey C. Pommerville,2013 Ideal for allied health and pre nursing students Alcamo s Fundamentals of Microbiology Body Systems Second Edition retains the engaging student friendly style and active learning approach for which award winning author and educator Jeffrey Pommerville is known Thoroughly revised and updated the Second Edition presents diseases complete with new content on recent discoveries in a manner that is directly applicable to students and organized by body system A captivating art program includes more than 150 newly added and revised figures and tables while new feature boxes Textbook Cases serve to better illuminate key concepts Pommerville s acclaimed learning design format enlightens and engages students right from the start and new chapter conclusions round out each chapter leaving readers with a clear understanding of key concepts *Human Genetics, Informational and Educational Materials* National Clearinghouse for Human Genetic Diseases (U.S.),

FUNDAMENTALS OF BIOCHEMISTRY, CELL BIOLOGY AND BIOPHYSICS - Volume I Ralph Kirby, T.G. Downing and M.I.El Gohary,2010-04-24 Fundamentals of Biochemistry Cell Biology and Biophysics is a component of Encyclopedia Of Biological Physiological And Health Sciences in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias This 3 volume set contains several chapters each of size 5000 30000 words with perspectives issues on Biological Science Foundations Organic Chemicals Involved In Life Processes Carbon

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Fundamentals of Microbiology Pommerville, 2017-05-08 Pommerville's Fundamentals of Microbiology Eleventh Edition makes the difficult yet essential concepts of microbiology accessible and engaging for students initial introduction to this exciting science

The Cell Geoffrey M. Cooper, Kenneth Adams, 2022-10-26 The Cell outlines the fundamental events related to cell biology and how they impact a wide array of diseases through numerous cell types and mechanisms New embedded resources including self assessment and expanded data analysis problems further facilitate student learning

Fundamentals of Microbiology Jeffrey C. Pommerville, 2014-12 Ideal for health science and nursing students Fundamentals of Microbiology Body Systems Edition Third Edition retains the engaging student friendly style and active learning approach for which award winning author and educator Jeffrey Pommerville is known Highly suitable for non science majors the fully revised and updated third edition of this bestselling text contains new pedagogical elements and an established learning design format that improves comprehension and retention and makes learning more enjoyable Unlike other texts in the field Fundamentals of Microbiology Body Systems Edition takes a global perspective on microbiology and infectious disease and supports students in self evaluation and concept absorption Furthermore it includes real life examples to help students understand the significance of a concept and its application in today's world whether to their local community or beyond New information pertinent to nursing and health sciences has been added while many figures and tables have been updated revised and or reorganized for clarity Comprehensive yet accessible the Third Edition is an essential text for non science majors in health science and nursing programs taking an introductory microbiology course Provided by publisher

Fundamentals of Cancer Detection, Treatment, and Prevention Surya K. De, 2022-05-23 Fundamentals of Cancer Detection Treatment and Prevention The professional guide to cancer diagnosis and therapy for researchers and clinicians In Fundamentals of Cancer Detection Treatment and Prevention distinguished researcher Surya K De delivers a concise and authoritative guide to cancer treatment diagnosis and prevention The book offers a comprehensive overview of cancer in humans from its causes symptoms and diagnosis to the variety of treatment options available today Intuitively organized by cancer type this guide provides concise information on risk factors diagnosis and treatment options for all commonly encountered tumors including surgery radiation therapy chemotherapy and immunotherapy All US FDA approved drugs like small molecules peptides monoclonal antibodies whole antibodies gene therapy antibody drug conjugates and cell therapies are considered and

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Fundamentals of Food Chemistry Sharad Khatwani, 2025-02-20 Fundamentals of Food Chemistry is an enlightening journey into the science that underpins our culinary experiences We expertly unpack the chemistry behind everyday foods guiding readers through essential components and reactions that shape taste texture and nutritional value Beginning with an engaging introduction we provide historical insights into food chemistry from ancient culinary observations to modern food science contributions This foundation sets the stage for an in depth look at core food components carbohydrates proteins lipids vitamins minerals and water explaining how each contributes to our enjoyment and health Beyond these basics we explore key chemical reactions in food such as the Maillard Reaction and enzymatic processes making complex ideas accessible We also address contemporary issues like food additives preservatives and the balance between natural and synthetic ingredients helping readers make informed choices With sections on sensory analysis food processing and nutritional chemistry Fundamentals of Food Chemistry offers a holistic perspective on the science of food The book culminates with discussions on sustainable food production biotechnology and AI in food research inviting readers to envision culinary science's future Perfect for students chefs and curious food lovers this book is an essential guide to understanding the chemistry behind what we eat

Genetics, Health Care and Public Policy Alison Stewart, Philippa Brice, Hilary Burton, Paul Pharoah, Simon Sanderson, Ron Zimmern, 2007-05-17 Genetics Health Care and Public Policy is an introduction to the new discipline of public health genetics It brings together the insights of genetic and molecular science as a means of protecting and improving the health of the population Its scope is wide and requires an understanding of genetics epidemiology public health and the principles of ethics law and the social sciences This book sets out the basic principles of public health genetics for a wide audience from those providing health care to those involved in establishing policy The emphasis throughout the text is on providing an accessible introduction to the field The content moves from the basic concepts including definitions and history through chapters on genetics genetic technology epidemiology genetics in medicine genetics in health services ethical legal and social implications to the implications for health policy It provides one stop introductory coverage of this rapidly developing and multidisciplinary field

The Lifespan Development of Individuals David Magnusson, 1997-10-28 A full understanding of the developmental process in individuals requires contributions from disciplines including developmental biology and psychology physiology neuropsychology social psychology sociology and

anthropology This ambitious and wide ranging book integrates the findings from these and related areas to form a holistic view of human development from conception to death Distinguished scientists have combined their expertise in a synthesis of biological and social sciences that will demand the attention of all researchers and practitioners concerned with human development across the lifespan Based on a Nobel symposium the topics discussed range from the function and development of single cells to the whole organism interacting with its environment Drawing upon new theories and models including the study of nonlinear dynamic systems and chaos theory this book represents a major step in the move towards an integrated science of human development *Structuring Biological Systems* S. Sitharama Iyengar,1992-04-30 *Structuring Biological Systems* focuses on the important components of biological systems in order to develop genetic algorithms for modeling purposes The book considers the characteristics of biological systems from the artificial intelligence point of view examines modeling examples of complex biological systems such as molecular level modeling a model of renal hemodynamics and cognitive aspects of modeling describes the entropy based probability distribution for modeling of environmental and biological systems and presents a detailed analysis of modeling cancer phenomena *Structuring Biologic Systems* will benefit students and researchers interested in an interdisciplinary approach to complex problems of biological systems as well as biologists chemists engineers research physicians and computer scientists *Genomics and Society* Dhavendra Kumar,Ruth Chadwick,2015-10-29 *Genomics and Society* Ethical Legal Cultural and Socioeconomic Implications is the first book to address the vast and thorny web of ELSI topics identified as core priorities of the NHGRI in 2011 The work addresses fundamental issues of biosociety and bioeconomy as the revolution in biology moves from research lab to healthcare system Of particular interest to healthcare practitioners bioethicists and health economists and of tangential interest to the gamut of applied social scientists investigating the societal impact of new medical paradigms the work describes a myriad of issues around consent confidentiality rights patenting regulation and legality in the new era of genomic medicine Addresses the vast and thorny web of ELSI topics identified as core priorities of the NHGRI in 2011 Presents the core fundamental issues of biosociety and bioeconomy as the revolution in biology moves from research lab to healthcare system Describes a myriad of issues around consent including confidentiality rights patenting regulation and more **Stud Managers' Handbook** ,1973

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