#### 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)

A. N	A. Multiple choice questions			10 marks (01 marks each)	
1.	Theg	iant chromosome found in insects is			
	fia li	Polytene chromosome	Ib1	Lampbrush chromo som e	
	Ec.1	Philadelpia chromosome	641	X- chromo-some	
2.	The involvement of centromere with each arm having one double-stranded break				
	Ea I	Paracentric inversion	(b)	Pericentric inversion	
	Ec 1	Telocentric inversion	641	Metacentric inversion	
3.	Formation of seed without fertilization is known as				
	fall.	Parthenocary	851	Parteno genesis	
	fe1	Apomixis	[81]	Sexual reproduction	
4.	The long arms of two acrocentric chromosomes fuse together to form single chromosome				
	Co II	Deletion	[b]	Inversion	
	Ec.1	Duplication	[41]	Robertsonian translocation	
50	Test cross ratio for duplicate gene action				
	Car II	1:1	Bo1	3:1	
	Ec.1	1:2:1	[41]	1:1:1:1	
6.	Mendel worked incentury				
	(a)	17 <sup>th</sup>	(b)	18 <sup>th</sup>	
	6c 1	19 <sup>th</sup>	1601	20 <sup>th</sup>	
7.	Mitotic cell division was first described by				
	Let 3	Watson	0×1	Roberts	
	fe1	Johnson	641	Fleming	
8.	If a plant with genotype AaBb is self-fertilized, the probability of getting AABB genotype will be (A				
	and B are not liked )				
	[a]	V2	Ib1	1/4	
	Le I	1/16	640	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	
	Ec.3	Incomplete dominance	[4]	Epistasis	
10.	V-shaped chromosomes are				
	[a]	Metacentric	[lb]	Acrocentric	
	[c]	Telocentric	[d]	Sub-metacentric	
31.	Crossing over takes place in stage				
	[a]	L'eptotene	[6]	Zy gotene	
	[c]	Pachytene	[st]	Diplotene	
12.	A cell without a cell wall is called				
	[at]	Plastid	Eb J	Protoplast	
	(c)	Chloroplast	[cf.]	Chromoplast	
13.	Chromosomal theory of inheritance was proposed by				
	(lat)	Darwin	[b]	Mendel	
	(6c)	Sutton & Boveri	[st]	Lamark	
340	Alternative form of a gene is known as				
	(a)	Locus	[b]	Genome	
	[c]	Allele	[ct]	Camete	
15.					
	[[4]]	B- chromo-some	[b]	X- chromosome	
	[c]	Polytene chromosome	[d]	Lampbrush chromosome	

#### B. Explain in Brief.

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

#### 15 marks (03 marks each)

# **Fundamentals Of Genetics Answers**

**Geoffrey M. Cooper, Kenneth Adams** 

#### **Fundamentals Of Genetics Answers:**

Fundamentals of Genetics Virversity Online Courses, 2025-08-25 Fundamentals of Genetics is a comprehensive online genetics course designed to provide students with a solid foundation in genetic principles and molecular biology This genetics program offers a thorough understanding of genes DNA inheritance patterns and modern genetic technologies equipping learners with essential skills for careers in biology biotechnology and healthcare Explore Key Concepts and Techniques in Genetics Training Gain foundational knowledge of genes DNA and cellular structures through engaging genetics classes Master principles of inheritance including Mendelian genetics and patterns of inheritance Understand genetic variation mutation and molecular genetics processes like transcription and translation Learn to analyze genetic linkage population genetics and modern mapping techniques Explore current genetic technologies and ethical considerations impacting the field Prepare for genetics certification or advanced genetics education with an expertly developed lesson plan An all inclusive genetics education covering the fundamentals of genes inheritance molecular biology and contemporary genetic research This genetics course begins with an introduction to the basics of genetics including an overview of cell structures and how DNA serves as the blueprint of life Students will deepen their understanding of gene structure chromosome organization and the essential mechanisms of DNA replication Through detailed lessons on Mendelian genetics and patterns of inheritance such as dominant recessive and co dominance learners will grasp how genetic traits are passed from one generation to the next Building upon this foundation the genetics training delves into genetic variation and mutation which introduce diversity within populations Molecular genetics is explored through transcription and translation processes revealing how genes dictate protein synthesis and cellular function. The course also examines regulatory mechanisms controlling gene expression enhancing insights into genetic activity With an introduction to genetic linkage mapping techniques and population genetics students gain the skills necessary to locate genes on chromosomes and understand evolutionary genetics. The curriculum includes modern genetic technologies and their applications preparing learners to engage with cutting edge research methods Additionally this genetics workshop addresses ethical issues surrounding genetic research and societal impacts fostering responsible scientific inquiry Upon completing this genetics program students will possess a thorough understanding of genetic principles and be well prepared for advanced study or professional opportunities requiring genetics certification They will be equipped to analyze genetic information accurately appreciate the complexities of inheritance and apply contemporary genetic techniques thoughtfully This course transforms learners into confident individuals ready to contribute meaningfully to the evolving field of genetics **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 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 **Fundamentals of** Genetics Peter J. Russell, Benjamin A. Pierce, 1994 Gives full coverage of genetics including the step by step problem solving approach pioneered by the author The book is suitable for students who have a limited background in biology and chemistry or for briefer courses where there is little time to cover advanced topics Human Genetics. Informational and Educational Materials National Clearinghouse for Human Genetic Diseases (U.S.), Fundamentals of Microbiology Jeffrey C. Pommerville, 2014 Every new copy of the print book includes access code to Student Companion Website The Tenth Edition of Jeffrey Pommerville's best selling award winning classic text Fundamentals of Microbiology provides nursing and allied health students with a firm foundation in microbiology Updated to reflect the Curriculum Guidelines for Undergraduate Microbiology as recommended by the American Society of Microbiology the fully revised tenth edition includes all new pedagogical features and the most current research data This edition incorporates updates on infectious disease and the

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can revolutionize the area of tissue regeneration and how metabolic engineering allows us to design microorganisms capable of producing valuable compounds Bioinformatics plays a crucial role in Synthetic Biology and we will dedicate a chapter to exploring how the analysis of genomic data and the use of bioinformatics algorithms contribute to the advancement of this discipline In addition we will cover topics such as genome editing using CRISPR technology synthetic protein engineering and directed evolution in the laboratory With the advancement of technology it has become possible to manufacture living tissue in the laboratory and we will discuss biofabrication and 3D printing of living tissue as well as the use of microfluidics in the manipulation and analysis of synthetic biological systems on a microscopic scale We will also address ethical and biosafety issues related to Synthetic Biology recognizing the importance of a responsible approach in all its applications This book is intended for students researchers and practitioners interested in exploring the frontiers of synthetic biology We hope it will be an inspiring source of knowledge awakening the curiosity and innovative spirit of all readers We invite you to embark on this exciting journey through Synthetic Biology in search of a deeper understanding of life and its transformative Fundamentals of Microbiology Pommerville, 2017-05-08 Pommerville s Fundamentals of Microbiology possibilities Eleventh Edition makes the difficult yet essential concepts of microbiology accessible and engaging for students initial introduction to this exciting science Concepts in Biology' 2007 Ed.2007 Edition , **Fundamentals of Cancer** Detection, Treatment, and Prevention Surva K. De, 2022-05-05 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 information about their generic and brand names clinical uses and mechanisms of action is presented Readers will also find A thorough overview of human cancers including cancer risk factors and possible preventions Comprehensive explorations of bladder blood brain and spinal cord cancers Practical discussions of breast colorectal cervical kidney and liver cancer In depth examinations of lung skin ovarian vaginal vulvar pancreatic and prostate cancers as well as mesothelioma Perfect for pharmaceutical chemists oncologists pharmacologists and medicinal chemists Fundamentals of Cancer Detection Treatment and Prevention is an indispensable guide for professional researchers whether they are working in the clinic or the pharmaceutical industry 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 Soft Computing in Computer Integrated Manufacturing Mr. Rohit Manglik, 2024-05-16 Investigates soft computing techniques like fuzzy logic neural networks and genetic algorithms for intelligent manufacturing systems and automation 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 Fundamentals of Educational Psychology Ira Morris Gast, Harley Clay Skinner, 1929 facilitate student learning Stud Managers' Handbook ,1973 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 Braunwald's Heart Disease Leonard S. Lilly, Eugene Braunwald, 2012-01-01 Dr Leonard S Lilly provides a current clear and concise overview of every aspect of cardiovascular medicine In print more than 800 review questions derived from the 9th Edition of Braunwald's Heart Disease test your knowledge of all essential concepts in cardiology today Detailed answers and cross references to Braunwald's make it easy to find definitive explanations for questions you may not have answered correctly The result is an ideal way to study for the Subspecialty Examinations in Cardiovascular Disease and Heart Failure Get a realistic simulation of the exam experience with interactive review questions Assess your mastery of the latest topics in cardiovascular medicine including molecular cardiovascular imaging intravascular ultrasound imaging cardiovascular regeneration and tissue engineering device therapy for advanced heart failure atrial fibrillation management

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