

LIFE SCIENCES GRADE 12 - PAPER 2
(Answers from past Assessment Guidelines)

MEIOSIS

STRUCTURE AND ARRANGEMENT OF CHROMOSOMES IN A NORMAL HUMAN KARYOTYPE

- Each chromosome comprises two chromatids✓
- held together by a centromere✓
- There are 23 pairs✓/46 chromosomes in
- human somatic cells✓/body cells
- which are arranged into homologous pairs✓
- that are similar in length✓
- carry genes for the same characteristics✓
- have alleles of a particular gene at the same loci✓and
- have the same centromere position✓
- Each somatic cell has 22 pairs/44 autosomes✓and
- a pair/2 gonosomes✓/sex chromosomes/X and Y chromosomes
- Autosomes are arranged in pairs from largest to smallest✓ in a karyotype
- Males have XY chromosomes✓
- Females have XX chromosomes✓
- The X chromosome is larger than the Y chromosome✓

BEHAVIOUR OF THE CHROMOSOMES DURING THE DIFFERENT PHASES OF MEIOSIS I

- During prophase✓ I
- chromosomes pair✓up/homologous pairs /bivalents form
- Crossing over✓exchange of genetic material occurs
- between chromatids✓/adjacent chromosome pairs
- During metaphase✓ I of meiosis
- homologous chromosomes✓/chromosome pairs are arranged
- at the equator✓of the cell
- in a random✓ way
- with the chromosome attached to the spindle fibre✓
- During anaphase✓ I
- chromosome pairs separate✓/chromosomes move to opposite poles
- During telophase✓ I
- the chromosomes reach the poles of the cell✓

EVENTS THAT LEAD TO DOWN SYNDROME

- Non-disjunction occurred✓/A homologous pair of chromosomes
- at position 21✓
- failed to separate✓
- during anaphase✓
- resulting in one gamete with 24 chromosomes✓ / an extra chromosome /
- chromosomes at position 21
- The fertilisation of this gamete with a normal gamete✓/gamete
- with 23 chromosomes /1 chromosome at position 21
- results in a zygote with 47 chromosomes✓
- There are 3 chromosomes✓/an extra chromosome at position 21/ this is Trisomy 21

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Implementation of Large-Scale Education Assessments Petra Lietz, John C. Cresswell, Keith F. Rust, Raymond J. Adams, 2017-04-24 Presents a comprehensive treatment of issues related to the inception design implementation and reporting of large scale education assessments In recent years many countries have decided to become involved in international educational assessments to allow them to ascertain the strengths and weaknesses of their student populations Assessments such as the OECD s Programme for International Student Assessment PISA the IEA s Trends in Mathematics and Science Study TIMSS and Progress in International Reading Literacy Study PIRLS have provided opportunities for comparison between students of different countries on a common international scale This book is designed to give researchers policy makers and practitioners a well grounded knowledge in the design implementation analysis and reporting of international assessments Readers will be able to gain a more detailed insight into the scientific principles employed in such studies allowing them to make better use of the results The book will also give readers an understanding of the resources needed to undertake and improve the design of educational assessments in their own countries and regions Implementation of Large Scale Education Assessments Brings together the editors extensive experience in creating designing implementing analysing and reporting results on a wide range of assessments Emphasizes methods for implementing international studies of student achievement and obtaining highquality data from cognitive tests and contextual questionnaires Discusses the methods of sampling weighting and variance estimation that are commonly encountered in international large scale assessments Provides direction and stimulus for improving global educational assessment and student learning Is written by experts in the field with an international perspective Survey researchers market researchers and practitioners engaged in comparative projects will all benefit from the unparalleled breadth of knowledge and experience in large scale educational assessments gathered in this one volume

Theory and Practice of the Triple Helix Model in Developing Countries Mohammed Saad, Girma Zawdie, 2011-02-25 Theory and Practice of Triple Helix Model in Developing Countries contributes to the expanding literature on triple helix innovation focusing on developing countries The book is based on practical cases and experiences from Africa Latin America and Asia Relevant experiences and best practices from developed countries are also examined The book is presented as a response to the growing awareness about the need for policy shift from the traditional technology transfer practice to a policy position that is capable of providing a sustainable basis for innovation and technological progress in developing

countries The book explores the triple helix system of innovation based on the dynamics of the interactive relationships between government industry and universities in the creation dissemination and sharing of knowledge in developing countries A major point addressed by the book is the extent to which the triple helix system of relationships between university industry and government can enhance the effectiveness of universities in developing countries as agents of innovation industrialization and sustainable development Lure Of Modern Science, The: Fractal Thinking Bill Deering, Bruce J West, 1995-05-31 The authors describe mostly in non technical language the development of a new scientific paradigm based on nonlinear deterministic dynamics and fractal geometry The concepts from these two mathematical disciplines are interwoven with data from the physical social and life sciences In this way rather sophisticated mathematical concepts are made accessible through experimental data from various disciplines and the formalism is relegated to appendices It is shown that the complexity of natural and social phenomena invariably lead to inverse power law distributions both in terms of probabilities and spectra This book tries to show how to think differently about familiar phenomena such as why the bell shape curve ought not to be used in teaching or in the characterization of such complex phenomena as intelligence Schaum's Outline of Basic Mathematics with Applications to Science and Technology, 2ed Haym Kruglak, John T. Moore, Ramon A. Mata-Toledo, 2009-06-10 Confusing Textbooks Missed Lectures Not Enough Time Fortunately for you there s Schaum s Outlines More than 40 million students have trusted Schaum s to help them succeed in the classroom and on exams Schaum s is the key to faster learning and higher grades in every subject Each Outline presents all the essential course information in an easy to follow topic by topic format You also get hundreds of examples solved problems and practice exercises to test your skills This Schaum s Outline gives you Practice problems with full explanations that reinforce knowledge Coverage of the most up to date developments in your course field In depth review of practices and applications Fully compatible with your classroom text Schaum s highlights all the important facts you need to know Use Schaum s to shorten your study time and get your best test scores Schaum s Outlines Problem Solved

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The Must-Read : Colleen Hoover "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed.

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Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting.

These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered.

The novel begins with Richard Papan, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts.

The Secret History is a brilliant and suspenseful novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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