

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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Yi-Tong Ma



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Educating for Professional Life Elaine Penn, 2017-09-26 The story of the University of Westminster is the fifth volume in a series of titles exploring the University's long and diverse history. This book celebrates the twenty fifth anniversary of the institution gaining university status, the right to award its own degrees and to participate in publicly funded research. Drawing on extensive research conducted in the University of Westminster Archive, this volume investigates the evolution from Polytechnic to University within the broader context of the transformation of UK higher education in the late twentieth and early twenty first centuries.

Everyday Chemicals Gerald A. LeBlanc, 2023-02-21 What is the likelihood that common chemicals such as bisphenol A which is found in plastic water bottles are harming us? Should shoppers be concerned about pesticide residues on fruits and vegetables in the supermarket produce aisle? Are we risking adverse health effects when we use insect repellent that contains DEET or slather on sunscreen? Modern life requires us to navigate an endless sea of chemicals. How do we know whether we need to worry about them? This book is a layperson's guide to understanding chemical risk. The toxicologist Gerald A. LeBlanc offers a nontechnical overview of the key factors in evaluating whether exposure to chemicals in our daily lives could be harmful. He leads readers through the basic concepts of risk assessment using real world examples. LeBlanc emphasizes that chemical hazard depends on the level of exposure and provides practical strategies for sensible decision making. The book features a series of accessible case studies describing how we all can reach rational conclusions about the danger of typical chemical exposures we experience every day. Giving nonexpert readers the tools to understand chemical risks, this book shows how critical thinking and science literacy can help us live with less fear and anxiety and make reasonable choices when confronted with potential hazards.

Technological Innovation in Legacy Sectors William B. Bonvillian, Charles Weiss, 2015-08-18 The American economy misses opportunities for innovation, growth and job creation because of a neglected problem: the resistance to innovation from legacy sectors like energy, manufacturing and health care which constitute most of our economy. The book offers systematic strategies to overcome the structural obstacles to innovation in critically important legacy sectors.

The Complete Book of Colleges, 2018 Edition Princeton Review, 2017-07 Includes information on admissions, cost, financial aid required and recommended admissions criteria, cost breakdowns and types of financial aid for 1,355 colleges and universities.

Sustainable Peace in Northeast Asia Yong-Shik Lee, 2023-09-05 Sustainable Peace in Northeast Asia examines the causes of lasting and complex tensions in the region from underlying political, historical, military and economic perspectives, discusses their historical development and political/economic implications for the world and explores possible solutions to build lasting peace. The book is unique in that it approaches the topic from the historical perspective of each constituent country in the region. Major global powers such as the United States and Russia have also closely engaged in the political and economic affairs of this region through a network of alliances, diplomacy, trade and investment. The book also discusses the influence of these external powers over the crisis.

their political and economic objectives in the region their strategies and the dynamics that their engagement has created Both South Korea and North Korea have sought reunification of the Korean peninsula which will have a substantial impact on the region The book examines its justification feasibility and effects for the region The book discusses the role of Mongolia in the context of the power dynamics in Northeast Asia A relatively small country in terms of its population Mongolia has rarely been examined in this context Sustainable Peace in Northeast Asia makes a fresh assessment of its potential role

Majolica Mania Susan Weber,2021-01-12 The first comprehensive study of the most important ceramic innovation of the 19th century Colorful wildly imaginative and technically innovative majolica was functional and aesthetic ceramic ware Its subject matter reflects a range of 19th century preoccupations from botany and zoology to popular humor and the macabre Majolica Mania examines the medium s considerable impact from wares used in domestic settings to monumental pieces at the World s Fairs Essays by international experts address the extensive output of the originators and manufacturers in England including Minton Wedgwood and George Jones and the migration of English craftsmen to the U S New research including information on important American makers in New York Baltimore and Philadelphia is also featured Fully illustrated the book is enlivened by new photography of pieces from major museums and private collections in the U S and Great Britain

An Age of Accountability John L. Rury,2023-10-13 An Age of Accountability highlights the role of test based accountability as a policy framework in American education from 1970 to 2020 For more than half a century the quest to hold schools and educators accountable for academic achievement has relied almost exclusively on standardized assessment The theory of change embedded in almost all test based accountability programs held that assessment with stipulated consequences could lead to major improvements in schools This was accomplished politically by proclaiming lofty goals of attaining universal proficiency and closing achievement gaps which repeatedly failed to materialize But even after very clear disappointments no other policy framework has emerged to challenge its hegemony The American public today has little confidence in institutions to improve the quality of goods and services they provide especially in the public sector As a consequence many Americans continue to believe that accountability remains a vital necessity even if educators and policy scholars disagree

AMA Manual of Style The JAMA Network Editors,2019-11-01 The AMA Manual of Style is a must have resource for anyone involved in medical health and scientific publishing Written by an expert committee of JAMA Network editors this latest edition addresses issues that face authors editors and publishers in the digital age Extensive updates are included in the References chapter with examples of how to cite digital publications preprints databases data repositories podcasts apps and interactive games and social media Full color examples grace the chapter on data display with newer types of graphic presentations and updated guidance on formatting tables and figures The manual thoroughly covers ethical and legal issues such as authorship conflicts of interest scientific misconduct intellectual property open access and public access and corrections The Usage chapter has been revised to bring the manual up to date on word choice especially in

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