#### 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\(\sigma\) up/homologous pairs /bivalents form
- Crossing overviexchange of genetic material occurs
- between chromatids //adjacent chromosome pairs
- During metaphase√ I of meiosis
- homologous chromosomes-//chromosome pairs are arranged
- at the equatory 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

# <u>Life Sciences Paper Grade 1november 2013</u>

Lisa M. P. Munoz

#### **Life Sciences Paper Grade 1november 2013:**

Women in Science Now Lisa M. P. Munoz, 2023-10-31 Silver Medal in the Social Change and Social Justice Category 2024 Nautilus Book Awards Winner 2024 Choice Outstanding Academic Title Women working in the sciences face obstacles at virtually every step along their career paths From subtle slights to blatant biases deep systemic problems block women from advancing or push them out of science and technology entirely Women in Science Now examines solutions to this persistent gender gap offering new perspectives on how to make science more equitable and inclusive for all This book shares stories and insights of women from a range of backgrounds working in various disciplines illustrating the journeys that brought them to the sciences the challenges they faced along the way and the important contributions they have made to their fields Lisa M P Munoz combines these narratives with a wealth of data to illuminate the size and scope of the challenges women scientists face while highlighting research based solutions to help overcome these obstacles She presents groundbreaking studies in social psychology and organizational behavior that are informing novel approaches for combating historic and ongoing inequities Through a combined focus on personal experiences and social science research this timely book provides both a path toward greater gender equity and an inspiring vision of science and scientists of Globalisation Assoc Prof Edward Shizha, Assoc Prof Lamine Diallo, 2015-04-28 This is a collection of bold and visionary scholarship that reveals an insightful exposition of re visioning African development from African perspectives It provides an interdisciplinary conceptual base that can effectively guide the planning and implementing of programs for socio economic development in Africa The book provides up to date scholarly research on continental trends on various subjects and concerns of paramount importance to globalisation and development in Africa politics democracy education gender technology global relationships and the role of non governmental organisations Safety and Reliability - Safe Societies in a Changing World Stein Haugen, Anne Barros, Coen Gulijk, Trond Kongsvik, Jan Erik Vinnem, 2018-06-15 Safety and Reliability Safe Societies in a Changing World collects the papers presented at the 28th European Safety and Reliability Conference ESREL 2018 in Trondheim Norway June 17 21 2018 The contributions cover a wide range of methodologies and application areas for safety and reliability that contribute to safe societies in a changing world These methodologies and applications include foundations of risk and reliability assessment and management mathematical methods in reliability and safety risk assessment risk management system reliability uncertainty analysis digitalization and big data prognostics and system health management occupational safety accident and incident modeling maintenance modeling and applications simulation for safety and reliability analysis dynamic risk and barrier management organizational factors and safety culture human factors and human reliability resilience engineering structural reliability natural hazards security economic analysis in risk management Safety and Reliability Safe Societies in a Changing World will be invaluable to academics and professionals working in a wide range of industrial and governmental sectors offshore oil and gas nuclear engineering aeronautics and

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Parliamentary Debates (Hansard). Great Britain. Parliament. House of Commons, 2013 **Universities Handbook** .2014 Sustaining Human Progress Khalid Malik, 2014 Most poeple in most countries have been steadily better in human development Advances in technology and incomes hold ever greater for longer healthier more secure lives The Mining Investor, 1912 The College Handbook College Entrance Examination Board, 1983 Presents information on 4 year colleges and universities and 2 year community colleges and technical schools Colliery Guardian, and Journal of the Coal and Iron Trades ,1921 The Railway Age and Northwestern Railroader ,1896 Psychology in Everyday Life David G. Myers, 2014-01-20 David Myers briefest introduction to psychology speaks to all students regardless of their background or level of preparedness with no assumptions made in the vocabulary examples or presentation Students of all kinds are comfortable with Myers manageable chapters which include careful connections to associated visuals comparative tables and research based pedagogy For this edition there is something completely new to a Myers text David Myers personally selected new coauthor Nathan DeWall's enthusiasm for teaching and writing about psychological science makes him uniquely suited to join the worlds bestselling psychology textbook author And with about 30 more pages of coverage this edition has become an even stronger and more complete introduction to the science of psychology for courses of all kinds

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