

**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

# Life Sciences Paper 2014 Grade 1scope

**Glencoe Publishing Staff**



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**Internet of Things, Artificial Intelligence and Blockchain Technology** R.Lakshmana Kumar,Yichuan Wang,T. Poongodi,Agbotiname Lucky Imoize,2021-09-02 This book explores the concepts and techniques of IoT AI and blockchain Also discussed is the possibility of applying blockchain for providing security in various domains The specific highlight of this book is focused on the application of integrated technologies in enhancing data models better insights and discovery intelligent predictions smarter finance smart retail global verification transparent governance and innovative audit systems The book allows both practitioners and researchers to share their opinions and recent research in the convergence of these technologies among academicians and industry people The contributors present their technical evaluation and compare it with existing technologies Theoretical explanation and experimental case studies related to real time scenarios are also included This book pertains to IT professionals researchers and academicians working on fourth revolution technologies

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