

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

Grade Life Sciences Paper Essay Topics

Jann H. Leppien, Jeanne H. Purcell



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X-kit FET Grade 12 LIFE SCIENCE ,2008 Education and Ethics in the Life Sciences Brian Rappert,2010-06-01 At the start of the twenty first century warnings have been raised in some quarters about how by intent or by mishap advances in biotechnology and related fields could aid the spread of disease Science academics medical organisations governments security analysts and others are among those that have sought to raise concern **EDUCATION AND ETHICS IN THE LIFE SCIENCES** examines a variety of attempts to bring greater awareness to security concerns associated with the life sciences It identifies lessons from practical initiatives across a wide range of national contexts as well as more general reflections about education and ethics The eighteen contributors bring together perspectives from a diverse range of fields including politics virology sociology ethics security studies microbiology and medicine as well as their experiences in universities think tanks and government In offering their assessment about what must be done and by whom each chapter addresses a host of challenging practical and conceptual questions **EDUCATION AND ETHICS IN THE LIFE SCIENCES** will be of interest to those planning and undertaking training activities in other areas In asking how education and ethics are being made to matter in an emerging area of social unease it will also be of interest to those with more general concerns about professional conduct **Parallel Curriculum Units for Science, Grades 6-12** Jann H. Leppien,Jeanne H. Purcell,2011-02-15 Breathe new life into science learning with this powerful guidebook that shows how to create more thoughtful curriculum and differentiate lessons to benefit all students **Cranial Creations in Life Science** Charles R. Downing,Owen L. Miller,1994 Fosters greater understanding in cell and human biology genetics microbiology and zoology Engages student interest and builds habits of mind **Collected Essays Addresses, Scientific Papers and Miscellaneous Writings** Abraham Jacobi,1909 **Towards Sustainable and Scalable Educational Innovations Informed by the Learning Sciences** Chee-Kit Looi,David H. Jonassen,Mitsuru Ikeda,2005 One of the basic principles that underpin the learning sciences is to improve theories of learning through the design of powerful learning environments that can foster meaningful learning Learning sciences researchers prefer to research learning in authentic contexts This book focuses on learning sciences in the Asia Pacific context , **Lectures, Essays and Published Articles on Scientific and Literary Subjects and on Foreign Travel** C. C. Merriman,1885 Volume contains 20 collotype plates from photographs of New Zealand South Sea Natives Photomicrographs and two portraits of the author The Lewis Co Boston did the collotype prints This is the only book by this company thus far identified The book notes that only about 600 prints are possible from a matrix and that these prints were polished with talc to bring out the contrast and detail Hanson Collection catalog p 82 CTET & TETs Previous Years Papers (2021 - 2013) Mathematics and Science (Class 6-8) 2021 Arihant Experts,2021-06-21 1 The book is complete practice capsule for CTET and TETs Entrances 2 Covers Previous Years Questions 2021 2013 of various Teaching Entrances 3 More than 3000 Questions are provided for practice 4 Well detailed answers help to understand the concepts Central Teacher

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