

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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Reji K. Joseph



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UNESCO science report UNESCO,2015-11-09 There are fewer grounds today than in the past to deplore a North South divide in research and innovation This is one of the key findings of the UNESCO Science Report towards 2030 A large number of countries are now incorporating science technology and innovation in their national development agenda in order to make their economies less reliant on raw materials and more rooted in knowledge Most research and development R D is taking place in high income countries but innovation of some kind is now occurring across the full spectrum of income levels according to the first survey of manufacturing companies in 65 countries conducted by the UNESCO Institute for Statistics and summarized in this report For many lower income countries sustainable development has become an integral part of their national development plans for the next 10 20 years Among higher income countries a firm commitment to sustainable development is often coupled with the desire to maintain competitiveness in global markets that are increasingly leaning towards green technologies The quest for clean energy and greater energy efficiency now figures among the research priorities of numerous countries Written by more than 50 experts who are each covering the country or region from which they hail the UNESCO Science Report towards 2030 provides more country level information than ever before The trends and developments in science technology and innovation policy and governance between 2009 and mid 2015 described here provide essential baseline information on the concerns and priorities of countries that could orient the implementation and drive the assessment of the 2030 Agenda for Sustainable Development in the years to come

Pharmaceutical Industry and Public Policy in Post-reform India Reji K. Joseph,2015-07-24 This book examines the impact of economic reforms in India on the pharmaceutical industry and access to medicines It traces the changing production and trade pattern of the industry research and development R D preferences and strategies of Indian pharmaceutical firms patent system alongside pricing policy measures and their shortcomings It also analyses the public health financing system in India driven largely by out of pocket expenditure about 60 per cent and characterised by very high share of medicines in total health expenditure A masterful insight into a topical area the work will be indispensable to those working on pharmaceutical industry and public policy It will be of interest to researchers scholars students and policy makers of economics industrial policy public policy intellectual property rights and health financing

Social Entrepreneurship in the Middle East Dima Jamali,Alessandro Lanteri,2016-04-29 This two volume book unveils trends strengths weaknesses and overall dynamics and implications of social entrepreneurship in the Middle East region whilst identifying both opportunities and threats facing social entrepreneurship and supplements through a wealth of insights and examples inspired from practice and current applications

Future Spacecraft Propulsion Systems and Integration Paul A. Czysz,Claudio Bruno,Bernd Chudoba,2017-08-30 The updated and expanded third edition of this book focuses on the multi disciplinary coupling between flight vehicle hardware alternatives and enabling propulsion systems It discusses how to match near term and far term

aerospace vehicles to missions and provides a comprehensive overview of the subject directly contributing to the next generation space infrastructure from space tourism to space exploration This holistic treatment defines a mission portfolio addressing near term to long term space transportation needs covering sub orbital orbital and escape flight profiles In this context a vehicle configuration classification is introduced covering alternatives starting from the dawn of space access A best practice parametric sizing approach is introduced to correctly design the flight vehicle for the mission This technique balances required mission with the available vehicle solution space and is an essential capability sought after by technology forecasters and strategic planners alike

Real-Time Business Intelligence and Analytics Malu Castellanos, Panos K. Chrysanthis, Konstantinos Pelechrinis, 2019-10-10 This book constitutes the thoroughly refereed conference proceedings of the BIRTE workshops listed below which were held in conjunction with VLDB the International Conference on Very Large Data Bases 9th International Workshop on Business Intelligence for the Real Time Enterprise BIRTE 2015 held in Kohala Coast Hawaii in August 2015 10th International Workshop on Enabling Real Time Business Intelligence BIRTE 2016 held in New Delhi India in September 2016 11th International Workshop on Real Time Business Intelligence and Analytics BIRTE 2017 held in Munich Germany in August 2017 The BIRTE workshop series provides a forum for the discussion and advancement of the science and engineering enabling real time business intelligence and the novel applications that build on these foundational techniques The book includes five selected papers from BIRTE 2015 five selected papers from BIRTE 2016 and three selected papers from BIRTE 2017

White Paper on Science and Technology, 2015

The metabolic pathways and environmental controls of hydrocarbon biodegradation in marine ecosystems Joel E. Kostka, Andreas P. Teske, Samantha B. Joye, Ian Head, 2015-05-15 Biodegradation mediated by indigenous microbial communities is the ultimate fate of the majority of oil hydrocarbon that enters the marine environment The aim of this Research Topic is to highlight recent advances in our knowledge of the pathways and controls of microbially catalyzed hydrocarbon degradation in marine ecosystems with emphasis on the response of microbial communities to the Deepwater Horizon oil spill in the Gulf of Mexico In this Research Topic we encouraged original research and reviews on the ecology of hydrocarbon degrading bacteria the rates and mechanisms of biodegradation and the bioremediation of discharged oil under situ as well as near in situ conditions

Acta Theriologica, 2014

Sustaining Human Progress Khalid Malik, 2014 Most people in most countries have been steadily better in human development Advances in technology and incomes hold ever greater for longer healthier more secure lives

Ag Decision Maker, 2013

Official Gazette Vietnam, 2017-03

Nanoelectronic Mixed-Signal System Design Saraju Mohanty, 2015-02-20 Covering both the classical and emerging nanoelectronic technologies being used in mixed signal design this book addresses digital analog and memory components Winner of the Association of American Publishers 2016 PROSE Award in the Textbook Physical Sciences Mathematics category Nanoelectronic Mixed Signal System Design offers professionals and students a unified perspective on the science engineering and technology behind

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