Life Science

Grade 12

PAPER 1



Oute: SEPTEMBER 2024

Time: 2 % HOURS

Mark: 550

INSTRUCTIONS AND INFORMATION

Read the following instruction carefully before answering the questions.

- Answer ALL questions.
- Write ALL the answers on the provided FOLIO PAPER.
- RIOLE OFF after each question.
- 4 Start each section on a NEW page.
- Number the answers correctly according to the numbering system used in this question paper.
- Present your answers according to the instructions for each question.
- Do ALL drawings in pencil and label them in blue pen-
- Draw slagrams or flow charts only when asked to do so.
- The diagrams in this question paper are NOT all drawn to scale.
- 101 You may use a non-programmable calculator, protractor, and compans.
- 111 You may NOT use graph paper.
- 12. Write neatly and legibly.

EXAM AGREEMENT	
 (Name & Sumane); Grade	

hereby acknowledge that I will abide by all examination rules objudited below during the writing of my LIFE. SCIENCE evans.

RULES:

- I will not have any electronic equipment in my possession (cell phones, smart watches and earphones).
- 2. I will not cause any disruption during this exam in the exam venue.
- 3. I will be honest at all times.

All rules, as discussed with me, will be honoured and obeyed.

Learner Signature

SECTION A Question 1

- Various options are provided as possible answers to the following questions. Choose the correct answer and write only the letter (A to D) next to the question number (1,1.1 to 1.1.10) on the FOLIO PAPER, for example 1.1.6 E.
- 1.1.1 Hollow, pear-shaped organ.
 - Vagina.
 - Uherus.
 - Fallopian tubes
 - Placents.
- 1.1.2 Choose the letter that does not explain the process of oogenesis.
 - The diploid germinal epithelium cells of the ovaries go through the process of mitosis. to form many folicies.
 - Every 21 days, the folicle stimulating hormone (FSH) stimulates one folicle. Only one cell inside of that folicie enlarges and goes through the process of meiosis.
 - Out of the 4 haploid cells produced through melosis, only one cell will survive to form a mature ovum.
 - The other three cells from meiosis will degenerate.
- 1.1.3 Before copulation the male sperm is stored temporarily in the ...
 - seminal vesicles.
 - sorotum.
 - prostate pland
 - epididymis.
- 1.1.4 Structure that receives a stimulus and converts it into an impulse.
 - autonomic nervous system.
 - effector
 - stimulus.
 - receptor

REPORT.

<u>Life Science September 2014 Question Paper And Memo</u>

Léo Pomar

Life Science September 2014 Question Paper And Memo:

Nimble Baba Prasad, 2015-04-24 The world today can be best described by one word turbulence As change rages all around how can you as an individual or as an organization take advantage of unexpected opportunities and succeed in difficult circumstances In a book that challenges traditional notions of strategy Baba Prasad draws on his research at some of the world's best business schools to show how intelligence can help you and your business navigate this maelstrom. The Intelligences Framework presented in Nimble goes beyond the common management concept of agility it presents an immensely practical and hands on approach for companies and individuals to develop five kinds of intelligences and apply them in different settings for maximum benefit Bridging strategy leadership and innovation and with vivid illustrations Nimble provides a path breaking assessment methodology and a systematic four step approach that every company and individual can use to lead amid turbulence The Hermeneutic Side of Responsible Research and Innovation Armin Grunwald, 2016-11-22 The book investigates the meaning of RRI if little or no valid knowledge about consequences of innovation and technology is available It proposes a hermeneutical turn to investigate narratives about possible futures with respect to their contemporary meaning instead of regarding them as anticipations of the future Risk Regulation in the Internal Market Maria Weimer, 2019-03-13 This book offers a topical inquiry into the legal and political limits of EU regulation in the field of risk and new technologies surrounded by techno scientific complexity uncertainty and societal contestation It uses agricultural biotechnology as a paradigmatic example to illustrate the complex intertwinement between environmental public health economic and social concerns in risk regulation Weimer analyses the drawbacks of the EU approach to agricultural biotechnology showing that its reductionism i e the narrow understanding of GMO risks as well as the exclusion of broader societal concerns related to environmental and social sustainability has undermined both the legitimacy and effectiveness of EU regulation in this area Resistance to this approach however has also triggered legal innovations prompting us to re think EU internal market law including the way in which it manages the tensions between unity and diversity and between social and economic concerns This text offers fresh and original insights into how far the EU can go in harmonizing regulatory approaches to risk At the same time it proposes new ways of re thinking EU risk regulation to make it more responsive to different perspectives on risk and technology A unique feature of this book is that it contributes to various strains of scholarship including risk regulation internal market law public administration and studies of governance and regulation as well as connecting these themes to broader debates about the legitimacy of European integration and new ways of differentiated integration As a result it assists in re imagining the EU internal market and its regulation as a site of diversity The Friction Project Robert I. Sutton, Huggy Rao, 2024-01-30 The definitive guide to eliminating the forces that make it harder more complicated or downright impossible to get things done in organizations Find out why Adam Grant says If every leader took the ideas in this book seriously the world would be a less miserable more

productive place Every organization is plagued by destructive friction Yet some forms of friction are incredibly useful and leaders who attempt to improve workplace efficiency often make things even worse Drawing from seven years of hands on research The Friction Project by bestselling authors Robert I Sutton and Huggy Rao teaches readers how to become friction fixers Sutton and Rao kick off the book by unpacking how skilled friction fixers think and act like trustees of others time They provide friction forensics to help readers identify where to avert and repair bad organizational friction and where to maintain and inject good friction Then their help pyramid shows how friction fixers do their work from reframing friction troubles they can t fix right now so they feel less threatening to designing and repairing organizations. The heart of the book digs into the causes and solutions for five of the most common and damaging friction troubles oblivious leaders addition sickness broken connections jargon monoxide and fast and frenzied people and teams Sound familiar Sutton and Rao are here to help They wrap things up with lessons for leading your own friction project including linking little things to big things the power of civility caring and love for propelling designs and repairs and embracing the mess that is an inevitable part of the process while still trying to clean it up Dean Acheson Robert L. Beisner, 2009-03-06 Dean Acheson was one of the most influential Secretaries of State in U.S. history presiding over American foreign policy during a pivotal era the decade after World War II. when the American Century slipped into high gear During his vastly influential career Acheson spearheaded the greatest foreign policy achievements in modern times ranging from the Marshall Plan to the establishment of NATO In this acclaimed biography Robert L Beisner paints an indelible portrait of one of the key figures of the last half century In a book filled with insight based on research in government archives memoirs letters and diaries Beisner illuminates Acheson's major triumphs including the highly underrated achievement of converting West Germany and Japan from mortal enemies to prized allies and does not shy away from examining his missteps But underlying all his actions Beisner shows was a tough minded determination to outmatch the strength of the Soviet bloc indeed to defeat the Soviet Union at every turn The book also sheds light on Acheson's friendship with Truman one a bourbon drinking mid Westerner with a homespun disposition the other a mustachioed Connecticut dandy who preferred perfect martinis Over six foot tall with steel blue merry searching eyes and a wolfish grin Dean Acheson was an unforgettable character intellectually brilliant always debonair and tough as tempered steel This lustrous portrait of an immensely accomplished and colorful life is the epitome of the biographer's art

World Ocean Assessment Alan Simcock,2017-04-17 This United Nations report examines the current state of knowledge of the world's oceans for policymakers and provides a reference for marine science courses A Review of the Environmental Protection Agency's Science to Achieve Results Research Program National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Board on Environmental Studies and Toxicology, Committee on the Review of Environmental Protection Agency's Science to Achieve Results Research Grants Program, 2017-08-24 Environmental research has driven landmark improvements that led to the protection of human and ecosystem health

Recognizing the value of knowledge generated by environmental research and the ingenuity within academic and nonprofit institutions the US Environmental Protection Agency EPA created a program known as Science to Achieve Results or STAR in 1995 STAR is EPA s primary competitive extramural grants program A Review of the Environmental Protection Agency s Science to Achieve Results Research Program assesses the program s scientific merit public benefits and overall contributions in the context of other relevant research and recommends ways to enhance those aspects of the program This report also considers the conclusions and recommendations of a prior National Research Council review of the STAR program 2003 the STAR program s research priorities in light of the nation s environmental challenges and the effects of recent STAR funding trends on obtaining scientific information needed to protect public health and the environment

Legal Knowledge and Information Systems R. Hoekstra, 2014-11-28 The JURIX conferences are an established international forum for academics practitioners government and industry to present and discuss advanced research at the interface between law and computer science Subjects addressed in this book cover all aspects of this diverse field theoretical focused on a better understanding of argumentation reasoning norms and evidence empirical targeted at a more general understanding of law and legal texts in particular and practical papers aimed at enabling a broader technical application of theoretical insights This book presents the proceedings of the 27th International Conference on Legal Knowledge and Information Systems JURIX 2014 held in Krak w Poland in December 2014 The book includes the 14 full papers 8 short papers 6 posters and 2 demos the first time that poster submissions have been included in the proceedings The book will be of interest to all those whose work involves legal theory argumentation and practice and who need a current overview of the ways in which current information technology is relevant to legal practice **Banned History** Lynsey Calver, 2022-08-11 Banned History is all the juicy bits of History which were excluded from your lessons at school It unashamedly probes into the darker side of some of Britain's most admired leaders as well as exploring the hateful and depraved nature of humanity across the last 5000 years Banned History answers questions which are deliberately avoided by the school curriculum due to the negative light Britain may be portrayed such as the real reason why Britain didn t bomb Auschwitz and how the Transatlantic Slave Trade came into being Topical issues such as whether Churchill was a racist and how homophobia developed and spread across the world are explored in depth Concepts which are too horrific to ever feature in the school curriculum are investigated to reveal how many years it takes for incest to wipe out a family what the most effective method of torture is and what kind of person tastes best Written in a bright and breezy tone Banned History is full of fascinating facts such as who discovered dolphins and who fell in love with one why America got involved in the Vietnam war why Russia turned communist how Martin Luther King got his name how many people Europe killed with their colonisation of the Americas and when and why the British government legalised men hitting their wives Welcome to the sort of History you definitely didn t get taught at school The Loss of Small White Clouds Morgan Batch, 2023-08-09 This volume seeks to

instigate a discussion about dementia in theatre The discussions in this book borrow from the literature on dementia s representation in other artforms while reflecting on theatre's unique capacity to incorporate multiple artforms in a live context hypermediacy. The author examines constructions of diegesis and the use of various performance tools including physical theatre puppetry and postdramatic performance She discusses stage representations of interior experiences of dementia selfhood in dementia the demarcation of those with dementia from those without endings erasure and the pursuit of catharsis placelessness and disruptions of traditional dramatic constructions of time and ultimately performances creatively led by people with dementia The book traces patterns of narrativisation on the stage including common dramaturgical forms settings and character relationships as well as examples that transcend mainstream representation This book is important reading for theatre and performance students scholars and practitioners as well as cultural studies writers The Swedish Presence in Afghanistan Arita Holmberg, Jan engaged in research about narratives of dementia Hallenberg, 2016-07-07 This book delivers on two analytical levels First it is a broad study of Sweden as an international actor an actor that at least for a brief period tried to play a different international role than that to which it was accustomed Second the book problematizes the role of international military missions as drivers for change in the security and defence field Several perspectives and levels of analysis are covered from the macro level of strategic discourse to the micro level of the experiences of individual commanders The book focuses upon Sweden and its participation in the international military mission in Afghanistan during 2002 2012 and also contributes to the growing literature evaluating the mission in Afghanistan the security practice which has dominated the security and defence discourse of Western Europe for the last decade

Congressional Record **Prevention of Abuse and Harassment in Athletics and Sports** Paolo Emilio Adami, Stéphane Bermon, Mike Hartill, Toomas Timpka, 2022-01-20 **Beyond Cutting Edge?** Paul C. Heidebrecht, 2014-03-10 A guick scan of any newsstand is enough to confirm the widespread preoccupation with technological change As a myriad of articles and advertisements demonstrate not only are we preoccupied with technology but we are bombarded with numerous reminders that the cutting edge is in constant motion Most often the underlying assumption of Christians is that we have no choice but to find ways to cope with the latest and greatest Indeed it is often assumed that the church has no choice but to find ways to cope with its new technological context This book does not make the same assumptions Building on the work of Mennonite theologian John Howard Yoder it argues that the practices of the church make it possible for Christians to conscientiously engage technology This happens when we recognize that marks of the church such as patience vulnerability and servanthood can put technological ideals such as speed control and efficiency in their proper place In the course of grappling with three examples of morally formative technologies automobiles genetically modified food and the Internet this book goes beyond Yoder's thought by emphasizing that the church also plays a crucial role in our moral formation Engendering Climate Change Asha Hans, Nitya Rao, Anjal Prakash, Amrita

Patel, 2021-02-25 This book focuses on the gendered experiences of environmental change across different geographies and social contexts in South Asia and on diverse strategies of adapting to climate variability The book analyzes how changes in rainfall patterns floods droughts heatwaves and landslides affect those who are directly dependent on the agrarian economy It examines the socio economic pressures including the increase in women s work burdens both in production and reproduction on gender relations It also examines coping mechanisms such as male migration and the formation of women s collectives which create space for agency and change in rigid social relations. The volume looks at perspectives from India Pakistan Bangladesh and Nepal to present the nuances of gender relations across borders along with similarities and differences across geographical socio cultural and policy contexts This book will be of interest to researchers and students of sociology development gender economics environmental studies and South Asian studies It will also be useful for policymakers NGOs and think tanks working in the areas of gender climate change and development Oxford Textbook of Creative Arts, Health, and Wellbeing Stephen Clift, Paul Marc Camic, 2016 There is growing interest internationally in the contributions which the creative arts can make to wellbeing and health in both healthcare and community settings A timely addition to the field this book discusses the role the creative arts have in addressing some of the most pressing public health challenges faced today Providing an evidence base and recommendations for a wide audience this is an essential resource for anyone involved with this increasingly important component of public health practice **Investigating Light** and Shadow with Young Children (Ages 3-8) Beth Dykstra Van Meeteren, 2022-06-17 Children are intrigued by switches that power a light source and by items that reflect light and sparkle and they take notice of personal shadows cast on the playground An understanding of light and shadow is crucial to many STEM fields including astronomy biology engineering architecture and more This book shows teachers how to engage children ages 3 8 with light and shadow in a playful way building an early foundation for the later more complex study of this phenomena and ultimately for children's interest in professions within the STEM fields The text offers guidance for arranging the physical environment of classrooms integrating literacy learning and investigations and building partnerships with administrators Each volume in the STEM for Our Youngest Learners Series includes examples of educators and children engaging in inquiry learning guidance for selecting materials and arranging the learning environment modifications and accommodations for diverse learners support for establishing adult learning communities and more Free Speech and Unfree News Sam Lebovic, 2016-03-14 Does America have a free press Many who say yes appeal to First Amendment protections against censorship Sam Lebovic shows that free speech on its own is not sufficient to produce a free press and helps us understand the crises that beset the press amid media consolidation a secretive national security state and the daily newspaper s decline **Water and Post-Conflict Peacebuilding** Erika Weinthal, Jessica J. Troell, Mikiyasu Nakayama, 2014-02-24 As a basic human need the provision of safe water is among the highest priorities of government and humanitarian interventions during post conflict recovery and

peacebuilding In the aftermath of war water sanitation and infrastructure play a critical role in the recovery of livelihoods and economic development Moreover shared waters have great potential for interstate cooperation assisting to rebuild trust following conflict and to prevent a return to conflict This volume draws on studies from around the world to create a framework for understanding how water resources decisions and activities can facilitate or undermine peacebuilding in a post conflict setting

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