



**Biology**  
**Higher level**  
**Paper 2**

Wednesday 11 November 2020 (afternoon)

2 hours 15 minutes

Candidate session number

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**Instructions to candidates**

- Write your session number in the boxes above.
- Do not open this examination paper until instructed to do so.
- Section A: answer all questions.
- Section B: answer two questions.
- Answers must be written within the answer boxes provided.
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- The maximum mark for this examination paper is **[72 marks]**.



# Biology Hl Paper May 2011

**K Morrison**



## **Biology HL Paper May 2011:**

*Introducing the IB Diploma Programme* Marc Abrioux, Jill Rutherford, 2013-02-14 Schools wishing to introduce the IB diploma programme are faced with major investment in terms of time effort and money in order to become authorised This manual is a resource for schools already offering the diploma as well as for prospective diploma schools

*Pseudomonas Aeruginosa, Biology, Genetics, and Host-pathogen Interactions* Dara W. Frank, 2012-02-02 The opportunistic pathogen *Pseudomonas aeruginosa* offers a rich variety of biologically relevant topics to explore and serves as a model system to understand the interactions of Gram negative bacteria with human hosts The organism adapts readily to most environments It has a large and variable genome with a great deal of metabolic potential *P. aeruginosa* encodes a variety of regulatory systems to fine tune gene expression and integrate environmental signals This organism can infect both plants and animals and produces a plethora of enzymes and factors that can overcome host defenses Moreover it has the ability to change between the states of a sedentary colonizer to an invasive and highly motile organism Clinically the bacterium is resistant to many antibiotics making it difficult to treat and impossible to eradicate from the lungs of patients with cystic fibrosis Intrinsic antibiotic resistance combined with an armamentarium of tissue degradative enzymes makes it imperative to possess a comprehensive understanding of the biology genetics and pathogenesis of this organism so that novel therapeutics based on virulence product neutralization can be designed and implemented This Research Topics issue will be devoted to updating the current understanding of *P. aeruginosa* systems as they relate to its different lifestyles in different environments The underlying theme is to provide broad overviews and to integrate protein structure function and gene regulation as it relates to the biology of this bacterium

*Anthropology and Cryptozoology* Samantha Hurn, 2016-11-03 Cryptozoology is best understood as the study of animals which in the eyes of Western science are extinct unclassified or unrecognised In consequence and in part because of its selective methods and lack of epistemological rigour cryptozoology is often dismissed as a pseudo science However there is a growing recognition that social science can benefit from engaging with it for as social scientists are very well aware scientific categorisation and explanation represents just one of a myriad of systems used by humans to enable them to classify and make sense of the world around them In many cultural contexts myth folk classification and lived experience challenge the truth expounded by scientists With a reflexive anthropological approach and drawing on rich empirical and ethnographic studies from around the world this volume engages with the theoretical and methodological issues raised by reported sightings of unrecognised animals Bringing into sharp focus the anthropological value and challenges for methodology posed by beliefs about unclassified creatures *Anthropology and Cryptozoology* Exploring encounters with mysterious creatures will be of interest to anthropologists sociologists and geographers working in the fields of research methods anthrozoology mythology and folklore and human animal interaction

*Legal Methods of Mainstreaming Climate Change Adaptation in Chinese Water Management* Xiangbai He, 2016-01-29 This book addresses why

whether and how the existing legal framework on water management in China could make climate change adaptation a mainstream issue The book uses a table to illustrate the distinctions and similarities between IWRM and water centered adaptation to analyze the possibilities of mainstreaming adaptation The new water planning processes and EIA are also illustrated in the form of figures showing the differences after factoring in adaptation considerations Interviews with water managers to obtain their perception and attitudes towards climate change adaptation offer new perspectives for readers The adaptation mainstreaming approach which finds a way to balance various interests and tasks will arouse the interests of those readers who argue that climate change is only one of the issues challenging water management and that poverty reduction environmental protection and living standard improvement are even more important Readers will also be interested to discover that the adaptation mainstreaming approach could be applied in water management institutions such as water planning and EIA In addition the book offers a clear explanation of the challenges of adaptation to the existing water related legal framework from a theoretical perspective and provides theoretical and practical recommendations

The Science of Parenting Margot Sunderland, 2016-07-05 Backed by the most up to date scientific research The Science of Parenting 2nd Edition provides evidence based parenting advice about how you should care for your child with practical strategies from birth to 12 years of age Child psychotherapist Dr Margot Sunderland has more than 30 years experience that she brings to this internationally acclaimed guide and she provides numerous case studies to relate the science to real life From separations and time apart to forms of discipline to the latest thinking on screen time this guide traces the direct effect of different parenting practices on your child's brain Summaries at the end of every chapter provide key takeaways and make action points simple and clear so you can begin to implement them immediately As a professional who works with families Dr Sunderland is attuned to the struggle of parents juggling lives at work and at home This second edition of The Science of Parenting provides newly added invaluable advice on making the most of your time with your child so that you can forge a strong bond and have a positive relationship The Science of Parenting remains the greatest work on what science can teach us about parenting and the remarkable effects of love nurture and play on a child's development

Climate Change and Agricultural Food Production Golam Kibria, 2013 The book Climate Change and Agricultural Food Production Impacts Vulnerabilities and Remedies provides an overview of climate change impacts on all agricultural food producing sectors agriculture livestock and fisheries food contamination and food safety microbial pathogens toxic biological toxic chemical contaminants food security and climate change adaptation and mitigation measures to counteract or minimise or reduce the effects of climate change on agriculture livestock and fisheries It reviews and summarizes research results data and information from the world including Africa Asia Australia Europe Latin America North America Polar Regions and Small Island Nations The book has been structured as textbook reference book and extension book and written in simple and plain English with key facts and acronyms and glossary provided in each chapter with tables and figures to benefit a wide range of

readThe key data and information provided in each chapter are highlighted below     **Fishery Bulletin** ,2012     *Forest Science* ,2011     *Agrindex* ,1995     New Horizon of Psychological Assessment in Education Melissa Lee Yen Abdullah Ng,2019     **Science** John Michels (Journalist),2011     *Yearbook of International Organizations 2014-2015, Volumes 1a & 1b (Set)* Union of International Associations,2014-06-16 Volume 1 A and B covers international organizations throughout the world comprising their aims activities and events     **The Parliamentary Debates (Hansard)**. Great Britain. Parliament. House of Lords,2013     **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  
       Marine & Freshwater Research ,2013     **Quick Reference for Counselors** ,2011     **Federation Proceedings**  
 Federation of American Societies for Experimental Biology,1975     **Ecology Abstracts** ,1987     **National Faculty Directory** ,2002     Thrombosis and Haemostasis ,1993

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