



ZIMBABWE SCHOOL EXAMINATIONS COUNCIL

General Certificate of Education Advanced Level

BIOLOGY

6030/1

PAPER 1 Multiple Choice

SPECIMEN PAPER

1 hour

Additional materials:

Multiple Choice answer sheet

Soft clean eraser

Soft pencil (type B or HB is recommended)

Electronic calculator and/or Mathematical tables

TIME 1 hour

INSTRUCTIONS TO CANDIDATES

Do not open this booklet until you are told to do so.

Write your name, centre number and candidate number on the answer sheet in the spaces provided unless this has already been done for you.

There are **forty** questions in this paper. Answer **all** questions. For each question there are four possible answers, **A, B, C** and **D**. Choose the **one** you consider correct and record your choice in **soft pencil** on the separate answer sheet.

Read very carefully the instructions on the answer sheet.

INFORMATION FOR CANDIDATES

Each correct answer will score one mark. A mark will not be deducted for a wrong answer. Any rough working should be done in this booklet.

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June 2013 Biology Paper A Level

Bruno Laugel



June 2013 Biology Paper A Level:

Biological Ontologies and Semantic Biology John Hancock, 2014-10-03 As the amount of biological information and its diversity accumulates massively there is a critical need to facilitate the integration of this data to allow new and unexpected conclusions to be drawn from it The Semantic Web is a new wave of web based technologies that allows the linking of data between diverse data sets via standardised data formats big data Semantic Biology is the application of semantic web technology in the biological domain including medical and health informatics The Special Topic encompasses papers in this very broad area including not only ontologies development and applications but also text mining data integration and data analysis making use of the technologies of the Semantic Web Ontologies are a critical requirement for such integration as they allow conclusions drawn about biological experiments or descriptions of biological entities to be understandable and integratable despite being contained in different databases and analysed by different software systems Ontologies are the standard structures used in biology and more broadly in computer science to hold standardized terminologies for particular domains of knowledge Ontologies consist of sets of standard terms which are defined and may have synonyms for ease of searching and to accommodate different usages by different communities These terms are linked by standard relationships such as is_a an eye is_a sense organ or part_of an eye is part_of a head By linking terms in this way more detailed or granular terms can be linked to broader terms allowing computation to be carried out that takes these relationships into account

Immune system modeling and analysis Ramit Mehr, Miles Davenport, 2015-04-22 The rapid development of new methods for immunological data collection from multicolor flow cytometry through single cell imaging to deep sequencing presents us now for the first time with the ability to analyze and compare large amounts of immunological data in health aging and disease The exponential growth of these datasets however challenges the theoretical immunology community to develop methods for data organization and analysis Furthermore the need to test hypotheses regarding immune function and generate predictions regarding the outcomes of medical interventions necessitates the development of mathematical and computational models covering processes on multiple scales from the genetic and molecular to the cellular and system scales The last few decades have seen the development of methods for presentation and analysis of clonal repertoires those of T and B lymphocytes and phenotypic surface marker based repertoires of all lymphocyte types and for modeling the intricate network of molecular and cellular interactions within the immune systems This e Book which has first appeared as a Frontiers in Immunology research topic provides a comprehensive online open access snapshot of the current state of the art on immune system modeling and analysis

The Assessment of Learning in Engineering Education John Heywood, 2016-02-23 Explores how we judge engineering education in order to effectively redesign courses and programs that will prepare new engineers for various professional and academic careers Shows how present approaches to assessment were shaped and what the future holds Analyzes the validity of teaching and judging engineering education Shows the

integral role that assessment plays in curriculum design and implementation Examines the sociotechnical system s impact on engineering curricula CTET and TET Child Development and Pedagogy Paper 1 and 2 for 2021 Exams Arihant Experts,2021-05-26 1 The book Child Development Mathematics and Pedagogy giving Chapterwise coverage to the syllabus 4 Previous Years Solved Papers and 5 Practice sets are designed exactly on the latest pattern of the examination 5 More than 1500 MCQs for thorough for practice 6 Useful for CTET UPTET HTET UTET CGTET and all other states TETs Robert Stenberg once said There is no Recipe to be a Great Teacher that s what is unique about them CTET provides you with an opportunity to make a mark as an educator while teaching in Central Government School Prepare yourself for the exam with current edition of Child Development and Pedagogy Paper I II that has been developed based on the prescribed syllabus of CTET and other State TETs related examination The book has been categorized under 22 chapters giving clear understanding of the concepts in Chapterwise manner Each chapter is supplied with enough theories illustrations and examples With more than 1500 MCQs help candidates for the quick of the chapters Practice part has been equally paid attention by providing Previous Years Questions asked in CTET TET Practice Questions in every chapter along with the 5 Practice Sets exactly based on the latest pattern of the Examination Also Latest Solved Paper is given to know the exact Trend and Pattern of the paper Housed with ample number of questions for practice it gives robust study material useful for CTET UPTET HTET UTET CGTET and all other states TETs TOC Solved Paper I II 2021 January Solved Paper I 2019 December Solved Paper II 2019 December Solved Paper 2019 July Solved Paper 2018 December CHILD DEVELOPMENT PEDAGOGY Concept of Development and its Relationship with Learning Principles of Child Development Influence of Heredity and Environment Socialisation Process Piaget Kohlberg and Vygotsky Concept of Child Centered and Progressive Education Construct of Intelligence and Multi Dimensional Intelligence Language and Thought Gender Issues in Social Construct Individual Difference Among Learners Evaluation of Learning Evaluation of Achievement and Formation of Questions Inclusive Education and Addressing Children from Diverse Backgrounds Identifying and Addressing Disabled and Learning Disability Children Identifying and Addressing the Talented Creative and Specially Abled Learners Thinking and Learning in Children Basic Process of Teaching and Learning Child as a Problem Solver and as a Scientific Investigator Alternative Conceptions of Learning in Children Cognition and Emotion Motivation and Learning National Curriculum Framework 2005 Practice Sets 1 5 *Remarkable Natural Material Surfaces and Their Engineering Potential* Michelle Lee,2014-02-04 This book explores a collection of natural surfaces their scientific characteristics and their unique engineering potential demonstrating that engineering applications can be found in unexpected places The surfaces covered range from botanical ones like rice and lotus leaves to insect surfaces like butterfly and dragonfly wings The variety of surfaces and numerous engineering potentials described show how biomimicry can be utilized to solve countless real world problems *Climate Change and Cities* Cynthia Rosenzweig,William D. Solecki,Patricia Romero-Lankao,Shagun

Mehrotra, Shobhakar Dhakal, Somayya Ali Ibrahim, 2018-03-29 Climate Change and Cities bridges science to action for climate change adaptation and mitigation efforts in cities around the world Soil Carbon Steven A Banwart, Elke Noellemeyer, Eleanor Milne, 2014-12-03 This book brings together the essential evidence and policy opportunities regarding the global importance of soil carbon for sustaining Earth's life support system for humanity Covering the science and policy background for this important natural resource it describes land management options that improve soil carbon status and therefore increase the benefits that humans derive from the environment Written by renowned global experts it is the principal output from a SCOPE rapid assessment process project **Investigating and harnessing T-cell functions with engineered immune receptors and their ligands** Bruno Laugel, 2015-01-22 T cells are an essential component of the immune system that provide protection against pathogen infections and cancer and are involved in the aetiology of numerous autoimmune and autoinflammatory pathologies Their importance in disease the relative ease to isolate expand and manipulate them ex vivo have put T cells at the forefront of basic and translational research in immunology Decades of study have shed some light on the unique way T cells integrate extrinsic environmental cues influencing an activation program triggered by interactions between peptide MHC complexes and the antigen recognition machinery constituted of clonally distributed T cell receptors and their co receptor CD4 or CD8 The manipulation of these molecular determinants in cellular systems or as recombinant proteins has considerably enhanced our ability to understand antigen specific T cell activation to monitor ongoing T cell responses and to exploit T cells for therapy Even though these principles have given numerous insights in the biology of CD8 T cells that translate into promising therapeutic prospects as illustrated by recent breakthroughs in cancer therapy they have proven more challenging to apply to CD4 T cells This Research Topic aims to provide a comprehensive view of the recent insights provided by the use of engineered antigen receptors and their ligands on T cell activation and how they have been or could be harnessed to design efficient immunotherapies **Five Superpowers for Co-Creators** Katrin Muff, 2018-10-26 This groundbreaking and timely book provides change makers organizations and facilitators with practical tools to initiate and conduct multi stakeholder co creation processes Such processes are of critical importance in times of rapid change where mega trends and grand challenges influence the market dynamics of business in entirely new ways The book provides a concrete pathway for business to become future ready by building capacity to work outside its traditional boundaries The book unfolds the shift of multi stakeholder teams from a state of competition to a state of collaboration addressing the inner and outer dimensions of such a change The five superpowers identified in the book are 1 the genuine engagement of individuals 2 collective solutions of groups 3 transformative spaces created by facilitators 4 the building blocks of co creation and 5 an effective strategy process for organizations The book explores the challenges to achieve each of these superpowers It also shares the stories of heroes of transformation and explores what have been the reasons for their success The Sustainable Development Goals SDGs the grand challenges the future of work call it what you

want the future is here and organizations change makers and facilitators need nothing less than these superpowers to collaborate with other players to solve these wicked problems **Energy metabolism** Patrick Christian Even,2014-11-03 Energy metabolism is central to life and altered energy expenditure EE is often cited as a central mechanism responsible for development of the obese phenotype Resting EE EE of physical activity cold induced thermogenesis and thermic effect of feeding add to produce total EE but can also affect each other It is thus very important that each component be well measured Measuring energy expenditure by indirect calorimetry is extremely simple in theory but the practice is far more difficult Taking into account temperature in small sized animals measuring accurately the effect of activity on EE correcting EE for body size body composition age sex etc add difficulties in producing reliable data The goal of this Research Topic was to call for the practical experience of main investigators trained to practice calorimetry in order to get their feedback and the way they deal with the various and specific problems of humans and animal calorimetry The goal is to share the questions solutions experienced by the contributors to initiate a guide of the good practices that can be periodically updated and used by all those who are and will be interested in measuring energy metabolism from the 20g mouse to the human and large farm animals *Conference proceedings. New perspectives in science education* Pixel,2014 **The Voice of Public Theology** Ted Peters,2022-11-07 Public theologians are already thundering like prophets at climate change and racial injustice But the gale force winds of natural science blow through society as well The public theologian should be on storm watch *Fluid Dynamics in Complex Fractured-Porous Systems* Boris Faybishenko,Sally M. Benson,John E. Gale,2015-06-15 Despite of many years of studies predicting fluid flow heat and chemical transport in fractured porous media remains a challenge for scientists and engineers worldwide This monograph is the third in a series on the dynamics of fluids and transport in fractured rock published by the American Geophysical Union Geophysical Monograph Series Vol 162 2005 and Geophysical Monograph No 122 2000 This monograph is dedicated to the late Dr Paul Witherspoon for his seminal influence on the development of ideas and methodologies and the birth of contemporary fractured rock hydrogeology including such fundamental and applied problems as environmental remediation exploitation of oil gas and geothermal resources disposal of spent nuclear fuel and geotechnical engineering This monograph addresses fundamental and applied scientific questions and is intended to assist scientists and practitioners bridge gaps in the current scientific knowledge in the areas of theoretical fluids dynamics field measurements and experiments for different practical applications Readers of this book will include researchers engineers and professionals within academia Federal agencies and industry as well as graduate undergraduate students involved in theoretical experimental and numerical modeling studies of fluid dynamics and reactive chemical transport in the unsaturated and saturated zones including studies pertaining to petroleum and geothermal reservoirs environmental management and remediation mining gas storage and radioactive waste isolation in underground repositories Volume highlights include discussions of the following Fundamentals of using a complex systems approach to describe flow

and transport in fractured porous media Methods of Field Measurements and Experiments Collective behavior and emergent properties of complex fractured rock systems Connection to the surrounding environment Multi disciplinary research for different applications

Atlas of Knowledge Katy Borner, 2015-03-20 The power of mapping principles for visualizing knowledge illustrated by many stunning large scale full color maps Maps of physical spaces locate us in the world and help us navigate unfamiliar routes Maps of topical spaces help us visualize the extent and structure of our collective knowledge they reveal bursts of activity pathways of ideas and borders that beg to be crossed This book from the author of Atlas of Science describes the power of topical maps providing readers with principles for visualizing knowledge and offering as examples forty large scale and more than 100 small scale full color maps Today data literacy is becoming as important as language literacy Well designed visualizations can rescue us from a sea of data helping us to make sense of information connect ideas and make better decisions in real time In Atlas of Knowledge leading visualization expert Katy B rner makes the case for a systems science approach to science and technology studies and explains different types and levels of analysis Drawing on fifteen years of teaching and tool development she introduces a theoretical framework meant to guide readers through user and task analysis data preparation analysis and visualization visualization deployment and the interpretation of science maps To exemplify the framework the Atlas features striking and enlightening new maps from the popular Places Spaces Mapping Science exhibit that range from Key Events in the Development of the Video Tape Recorder to Mobile Landscapes Location Data from Cell Phones for Urban Analysis to Literary Empires Mapping Temporal and Spatial Settings of Victorian Poetry to Seeing Standards A Visualization of the Metadata Universe She also discusses the possible effect of science maps on the practice of science

Food Security, Poverty and Nutrition Policy Analysis Suresh Babu, Shailendra Gajanan, Prabuddha Sanyal, 2014-02-13 Food insecurity the lack of access at all times to the food needed for an active and healthy life continues to be a growing problem as populations increase while the world economy struggles Formulating effective policies for addressing these issues requires thorough understanding of the empirical data and application of appropriate measurement and analysis of that information Food Security Poverty and Nutrition Policy Analysis Second Edition has been revised and updated to include hands on examples and real world case studies using the latest datasets tools and methods Providing a proven framework for developing applied policy analysis skills this book is based on over 30 years of food and nutrition policy research at the International Food Policy Research Institute and has been used worldwide to impart the combined skills of statistical data analysis computer literacy and their use in developing policy alternatives This book provides core information in a format that provides not only the concept behind the method but real world applications giving the reader valuable practical knowledge Updated to address the latest datasets and tools including STATA software the future of policy analysis Includes a new chapter on program evaluation taking the reader from data analysis to policy development to post implementation measurement Identifies the proper analysis method its application to

available data and its importance in policy development using real world scenarios Over 30% new content and fully revised throughout ICT Innovations 2014 Ana Madevska Bogdanova, Dejan Gjorgjevikj, 2014-08-09 Data is a common ground a starting point for each ICT system Data needs processing use of different technologies and state of the art methods in order to obtain new knowledge to develop new useful applications that not only ease but also increase the quality of life These applications use the exploration of Big Data High throughput data Data Warehouse Data Mining Bioinformatics Robotics with data coming from social media sensors scientific applications surveillance video and image archives internet texts and documents internet search indexing medical records business transactions web logs etc Information and communication technologies have become the asset in everyday life enabling increased level of communication processing and information exchange This book offers a collection of selected papers presented at the Sixth International Conference on ICT Innovations held in September 2014 in Ohrid Macedonia with main topic World of data The conference gathered academics professionals and practitioners in developing solutions and systems in the industrial and business arena especially innovative commercial implementations novel applications of technology and experience in applying recent ICT research advances to practical solutions *Interest in Mathematics and Science Learning* Ann Renninger, Martina Nieswandt, Suzanne Hidi, 2015-04-19 Interest in Mathematics and Science Learning edited by K Ann Renninger Martin Nieswandt and Suzanne Hidi is the first volume to assemble findings on the role of interest in mathematics and science learning As the contributors illuminate across the volume s 22 chapters interest provides a critical bridge between cognition and affect in learning and development This volume will be useful to educators researchers and policy makers especially those whose focus is mathematics science and technology education *Flooding and Management of Large Fluvial Lowlands* Paul F. Hudson, 2021-11-25 Examines interrelations between flood management flooding and environmental change for advanced students researchers and practitioners **Globalising the Climate** Stefan Aykut, Jean Foyer, Edouard Morena, 2017-03-03 Frequently presented as a historic last chance to set the world on a course to prevent catastrophic climate change the 21st Conference of the Parties to the Climate convention COP21 was a global summit of exceptional proportions Bringing together negotiators scientists journalists and representatives of global civil society it also constituted a privileged vantage point for the study of global environmental governance in the making This volume offers readers an original account of the current state of play in the field of global climate governance Building upon a collaborative research project on COP21 carried out by a multidisciplinary team of twenty academics with recognised experience in the field of environmental governance the book takes COP21 as an entry point to analyse ongoing transformations of global climate politics and to scrutinise the impact of climate change on global debates more generally The book has three key objectives To analyse global climate governance through a combination of long term analysis and on sight observation To identify and analyse the key spaces of participation in the global climate debate To examine the climatisation of a series of crosscutting themes including development energy security

and migration This book will be of great interest to students scholars and policymakers of climate politics and governance international relations and environmental studies **October 2019 Monthly Current Affairs with MCQs for Competitive Exams** Disha Experts,2019-09-25

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