

SECTION - I

BOTANY

Q.1. Explain dihybrid cross with suitable example. [7]

OR

What is bacteriophage? Explain lytic cycle of bacteriophage with suitable diagram.

Q.2. Select and write the most appropriate answer from the given alternatives for each sub-question : [7]

- (i) Which one of the following is an example of multiple alleles ?
 (a) Height in pea plant (b) Hair colour in cattle
 (c) Petal colour in four o'clock plant (d) Wing-size in *Drosophila*
- (ii) The harmful radiations absorbed by the ozone layer are _____
 (a) X-rays (b) visible light
 (c) Ultraviolet (UV) rays (d) gamma rays
- (iii) The micro-organism used in the production of acetic acid is _____
 (a) *Aspergillus niger* (b) *Rhizopus arrhizus*
 (c) *Neurospora gossypii* (d) *Acetobacter aceti*
- (iv) The adenosine triphosphate (ATP) gain during glycolysis, connecting link and Krebs' cycle respectively are _____
 (a) 8, 6, 24 (b) 8, 24, 6 (c) 24, 8, 6 (d) 6, 8, 24
- (v) Guano deposits are rich in _____
 (a) sulphur (b) phosphorus (c) calcium (d) magnesium
- (vi) How many meiotic divisions are required for the formation of 100 seeds ?
 (a) 25 (b) 50 (c) 100 (d) 125
- (vii) During fertilisation male gametes are carried by pollen tube. This is called _____
 (a) syngamy (b) siphonogamy (c) mesogamy (d) polygamy

Q.3. (A) Answer in 'ONE' sentence each : (6) [12]

- (i) Define 'microsporogenesis'.
 (ii) Define 'greenhouse effect'.
 (iii) Give any 'two' examples of edible mushrooms.
 (iv) Name the reactions when α -ketoglutarate is converted to succinyl Co-A in Krebs' cycle.
 (v) What is amphimixis?
 (vi) Give the role of heterocyst.

Q. 3.(B) Sketch and label ultrastructure of mitochondrion. (2)

Q. 3.(C) Attempt Any TWO of the following : (4)

- (i) Give advantages of single cell protein (SCP).
 (ii) Explain the concept of primary productivity.
 (iii) With the help of suitable diagram define 'bagging' and 'tagging' of flower.
 (iv) Give advantages of self pollination.

Q. 4 (A) Attempt Any TWO of the following : (6) [9]

- (i) A heterozygous tall plant of pea is crossed with a dwarf plant of pea.

Question Paper 2013 To 2014 October Biology

Peter S. Williams



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Sharing Clinical Trial Data Institute of Medicine, Board on Health Sciences Policy, Committee on Strategies for Responsible Sharing of Clinical Trial Data, 2015-04-20 Data sharing can accelerate new discoveries by avoiding duplicative trials stimulating new ideas for research and enabling the maximal scientific knowledge and benefits to be gained from the efforts of clinical trial participants and investigators At the same time sharing clinical trial data presents risks burdens and challenges These include the need to protect the privacy and honor the consent of clinical trial participants safeguard the legitimate economic interests of sponsors and guard against invalid secondary analyses which could undermine trust in clinical trials or otherwise harm public health Sharing Clinical Trial Data presents activities and strategies for the responsible sharing of clinical trial data With the goal of increasing scientific knowledge to lead to better therapies for patients this book identifies guiding principles and makes recommendations to maximize the benefits and minimize risks This report offers guidance on the types of clinical trial data available at different points in the process the points in the process at which each type of data should be shared methods for sharing data what groups should have access to data and future knowledge and infrastructure needs Responsible sharing of clinical trial data will allow other investigators to replicate published findings and carry out additional analyses strengthen the evidence base for regulatory and clinical decisions and increase the scientific knowledge gained from investments by the funders of clinical trials The recommendations of Sharing Clinical Trial Data will be useful both now and well into the future as improved sharing of data leads to a stronger evidence base for treatment This book will be of interest to stakeholders across the spectrum of research from funders to researchers to journals to physicians and ultimately to patients Educart NEET 37 Years Chemistry Solved Papers (PYQs) Chapterwise and Topicwise for NEET 2025 Exam Educart, Dr. Rakshita Singh, 2024-07-25 **Educart NEET 37 Years Physics Solved Papers (PYQs) Chapterwise and Topicwise for NEET 2025 Exam** Educart, Dr. Rakshita Singh, 2024-07-25

Proceedings of the International Conference Theory and Applications in the Knowledge Economy TAKE 2017 Blazenka Knezevic, Gaby Neumann, 2017-07-08 Foreword A famous Portuguese Poet once said around one hundred years ago before I was born all the words that should save the Humanity had already been written the only thing that was missing was to save Humanity Fast forward to the 21st century services led and knowledge based economy and we have myriads of theoretical study about the decisive assets namely intangibles Those analysis are made in several perspectives namely Human Resources Knowledge Management Intellectual Capital and also many sectorial perspectives like Trade Economics Logistics Social Policy etc However today the question about the applicability of all these studies remains unsolved So it like many of the words that will save the Knowledge Economy have already been written all we need is to save the Knowledge Economy Or is it not The idea behind TAKE Conference was to provide a multidisciplinary forum in which those multiple perspectives will come together We believe it is a fruitful operation and we intend to continue the exercise in the future The problem of the

relation between theory and practice in the knowledge economy is getting more important and not less important with the development of the BRICS and other nations TAKE main question will be one of the problems of the 21st century Following the promising start of TAKE 2016 in Aveiro Portugal TAKE 2017 was organized by the Faculty of Economics of Zagreb University around Prof Blazenka Knezevic I would like to thank her and her team for the massive effort in putting TAKE 2017 together It will be a very nice and memorable conference I would like also to thank the 5 keynotes the special sessions and workshop organizes the authors of the 60 papers and 5 posters the stream leaders the reviewers and the sponsors for the efforts And to the 90 participants from 20 countries Austria Bosnia Herzegovina Canada Croatia Germany Hong Kong Hungary Netherlands Mexico Portugal Poland Romania Russia South Africa Serbia Slovakia Spain Thailand United Kingdom United States A special word to Prof Gaby Neumann from Wildau who organized the Proceedings Let us make TAKE 2017 a great occasion and help save the knowledge economy a bit Eduardo Tom Conference Chair Zagreb July 2017

Shaping Images Thorsten Stephan Beck, 2016-09-12 Images play an outstanding role in the transfer of knowledge They are used in numerous academic disciplines to present scientific results Digital tools such as Adobe Photoshop make it possible to display the information in images brilliantly and clearly at the same time the line between appropriate and inappropriate manipulation is not always easy to draw Scientific journals have published guidelines for handling and editing images but they are not always specific enough to provide clarity for all situations Shaping Images examines how scholars from biology information science art history and design deal with this uncertainty how they process and manipulate images where they see their special potential and how they draw the line between appropriate and inappropriate image manipulation The work also looks at scientific journals and lets selected editors have their say What would have to happen to make it possible to combat image manipulation in science more effectively The book's interdisciplinary approach makes it clear how different the practices are and how different the views are on what should be allowed in the processing of images Images this too is problematized in the book are always a means to a certain end which is precisely why the handling of images should be thoroughly reflected upon

Adapted Primary Literature Anat Yarden, Stephen P. Norris, Linda M. Phillips, 2015-03-16 This book specifies the foundation for Adapted Primary Literature APL a novel text genre that enables the learning and teaching of science using research articles that were adapted to the knowledge level of high school students More than 50 years ago J J Schwab suggested that Primary Scientific Articles afford the most authentic unretouched specimens of enquiry that we can obtain and raised for the first time the idea that such articles can be used for enquiry into enquiry This book the first to be published on this topic presents the realization of this vision and shows how the reading and writing of scientific articles can be used for inquiry learning and teaching It provides the origins and theory of APL and examines the concept and its importance It outlines a detailed description of creating and using APL and provides examples for the use of the enactment of APL in classes as well as descriptions of possible future prospects for the implementation of APL Altogether the

book lays the foundations for the use of this authentic text genre for the learning and teaching of science in secondary schools

The Oxford Handbook of Law, Regulation and Technology Roger Brownsword, Eloise Scotford, Karen Yeung, 2017-07-24 The variety pace and power of technological innovations that have emerged in the 21st Century have been breathtaking These technological developments which include advances in networked information and communications biotechnology neurotechnology nanotechnology robotics and environmental engineering technology have raised a number of vital and complex questions Although these technologies have the potential to generate positive transformation and help address grand societal challenges the novelty associated with technological innovation has also been accompanied by anxieties about their risks and destabilizing effects Is there a potential harm to human health or the environment What are the ethical implications Do these innovations erode or antagonize values such as human dignity privacy democracy or other norms underpinning existing bodies of law and regulation These technological developments have therefore spawned a nascent but growing body of law and technology scholarship broadly concerned with exploring the legal social and ethical dimensions of technological innovation This handbook collates the many and varied strands of this scholarship focusing broadly across a range of new and emerging technology and a vast array of social and policy sectors through which leading scholars in the field interrogate the interfaces between law emerging technology and regulation Structured in five parts the handbook I establishes the collection of essays within existing scholarship concerned with law and technology as well as regulatory governance II explores the relationship between technology development by focusing on core concepts and values which technological developments implicate III studies the challenges for law in responding to the emergence of new technologies examining how legal norms doctrine and institutions have been shaped challenged and destabilized by technology and even how technologies have been shaped by legal regimes IV provides a critical exploration of the implications of technological innovation examining the ways in which technological innovation has generated challenges for regulators in the governance of technological development and the implications of employing new technologies as an instrument of regulatory governance V explores various interfaces between law regulatory governance and new technologies across a range of key social domains

Applications and Practices in Ontology Design, Extraction, and Reasoning Marilena Daquino, 2020-12-15 Semantic Web technologies enable people to create data stores on the Web build vocabularies and write rules for handling data They have been in use for several years now and knowledge extraction and knowledge discovery are two key aspects investigated in a number of research fields which can potentially benefit from the application of semantic web technologies and specifically from the development and reuse of ontologies This book Applications and Practices in Ontology Design Extraction and Reasoning has as its main goal the provision of an overview of application fields for semantic web technologies In particular it investigates how state of the art formal languages models methods and applications of semantic web technologies reframe research questions and approaches in a number of research fields The

book also aims to showcase practical tools and background knowledge for the building and querying of ontologies The first part of the book presents the state of the art of ontology design applications and practices in a number of communities and in doing so it provides an overview of the latest approaches and techniques for building and reusing ontologies according to domain dependent and independent requirements Once the data is represented according to ontologies it is important to be able to query and reason about them also in the presence of uncertainty vagueness and probabilities The second part of the book covers some of the latest advances in the fields of ontology semantics and reasoning without losing sight of the book's practical goals

Inferior Colliculus Microcircuits Manuel S. Malmierca, Eric Daniel Young, 2015-03-17 Nothing provided

Information and Software Technologies Giedre Dregvaite, Robertas Damasevicius, 2015-10-13 This book constitutes the refereed proceedings of the 21th International Conference on Information and Software Technologies ICIST 2015 held in Druskininkai Lithuania in October 2015 The 51 papers presented were carefully reviewed and selected from 125 submissions The papers are organized in topical sections on information systems business intelligence for information and software systems software engineering information technology applications

Buying your Self on the Internet Phillips Andelka M. Phillips, 2019-07-17 This book examines the rise of the direct to consumer genetic testing industry DTC and its use of wrap contracts It uses the example of DTC to show the challenges that disruptive technologies pose for societies and for regulation It also uses the wrap contracts of DTC companies to explore broader issues with online contracting

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

Cellular Processes in Segmentation Ariel Chipman, 2020-04-03 The evolution of segmentation is one of the central questions in evolutionary developmental biology Indeed it is one of the best case studies for the role of changes in development in the evolution of body plans Segmented body plans are believed to have appeared several times in animal evolution and to have contributed significantly to the evolutionary success of the taxa in which they are present Because of the centrality of the subject and the continuing interest in understanding segmentation this book offers an often overlooked focus on the cellular aspects of the process of segmentation providing an invaluable reference for students of evolutionary developmental biology at all levels

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Dr Ariel D Chipman is Associate Professor in the Department of Ecology Evolution Behavior of the Silberman Institute of Life Sciences at The Hebrew University of Jerusalem He is the author or co author of dozens of peer reviewed scientific journal articles His

research focuses upon the evolution of animal body plans with a focus on arthropod segmentation integrating comparative embryology the fossil record and genome evolution

Advances in Energy Science and Equipment Engineering
Shiquan Zhou, Aragona Patty, Shiming Chen, 2015-11-05 Advances in Energy Equipment Science and Engineering contains selected papers from the 2015 International Conference on Energy Equipment Science and Engineering ICEESE 2015 Guangzhou China 30-31 May 2015 The topics covered include Advanced design technology Energy and chemical engineering Energy and environmental engineering Energy science

STEM of Desire, 2019-01-14 STEM of Desire Queer Theories and Science Education locates creates and investigates intersections of science technology engineering and mathematics STEM education and queer theorizing Manifold desires personal political cultural produce and animate STEM education Queer theories instigate and explore possibilities for knowing and being through desires normal and strange The provocative original manuscripts in this collection draw on queer theories and allied perspectives to trace entanglements of STEM education sex sexuality gender and desire and to advance constructive critique creative world making and compassionate advocacy Not just another call for inclusion this volume turns to what and how STEM education and diverse desiring subjects might be come in relation to each other and the world STEM of Desire is the first book length project on queering STEM education Eighteen chapters and two poems by 27 contributors consider STEM education in schools and universities museums and other informal learning environments and everyday life Subject areas include physical and life sciences engineering mathematics nursing and medicine environmental education early childhood education teacher education and education standards These queering orientations to theory research and practice will interest STEM teacher educators teachers and professors undergraduate and graduate students scholars policy makers and academic libraries Contributors are Jesse Bazzul Charlotte Boulay Francis S Broadway Erin A Cech Steve Fifield Blake M R Flessas Andrew Gilbert Helene Gtschel Emily M Gray Kristin L Gunckel Joe E Heimlich Tommye Hutson Kathryn L Kirchgasser Michelle L Knaier Sheri Leafgren Will Letts Anna MacDermut Michael J Reiss Donna M Riley Cecilia Rodhn Scott Sander Nicholas Santavicca James Sheldon Amy E Slaton Stephen Witzig Timothy D Zimmerman and Adrian Zongrone

Pretoria Student Law Review 2021-15 Phenyo Nomasonto Morweši Sekati, 2022-01-01 About the publication I am delighted to present to you the reader the fifteenth edition of the Pretoria Student Law Review PSLR with its Special Section on Social Justice and COVID 19 This year's Annual Edition together with the developments made during the year is a testament to the growth resilience and adaptability of this student driven initiative especially during these turbulent times This year has also been one of reflection and remembrance as we publish this edition in tribute to the late Professor Christof Heyns whose instrumentality in the establishment of the Pretoria University Law Press PULP has brought us to where we are today Fourteen years since its inception and the PSLR still continues to grow and evolve whilst remaining true to its thriving legacy in fostering excellence and innovation through legal writing This publication's uniqueness is also presented through its diverse contributions all

addressing contemporary societal and legal issues under a broad range of legal disciplines In an era of many continued firsts the PSLR has strived to build on the legacy of its predecessors by expanding on the Journal s visibility and accessibility The PSLR s digital presence has now grown substantially leading to an increase in quality submissions from institutions across the country This year the PSLR launched its first independent website and developed an official logo for the Journal and its online platforms Authors are now able to submit their papers through the Open Journals System platform track their workflow manage their submissions and submit at any time outside of the PSLR s official call for submissions We can firmly submit that we have in pursuance of being a DHET accredited journal fulfilled the standards set out by the Department of Higher Education and Training Many thanks are extended to Makone Maja for developing the website Your patience guidance and geniality are truly appreciated Thank you also to Jakolien Strydom and ClickCreate for your charitable assistance in developing and designing the logo To the authors this year has in many respects been challenging with many of those challenges affecting students directly We appreciate the dedicated efforts put into your submissions and your wholehearted cooperation throughout the entire process Much appreciation is also extended to the reviewers who have selflessly committed to assisting the PSLR during the peer review process To all of the reviewers your input guidance and recommendations are greatly appreciated Phenyo Nomasonto Morwesi Sekati Editor in Chief 2020 **Outgrowing God?**

Peter S. Williams,2020-09-30 Join a cast of characters with different perspectives thinking through some of the biggest questions in life as they discuss atheist Richard Dawkins s book Outgrowing God A Beginner s Guide Written in the form of a dialogue between members of a student book club Outgrowing God A Beginner s Guide to Richard Dawkins and the God Debate encourages critical thinking about Professor Dawkins s arguments concerning God Jesus and the Bible

Plant-derived natural compounds in drug discovery: The prism perspective between plant phylogeny, chemical composition, and medicinal efficacy Chunnian He, Da-Cheng Hao, Richard Spjut, Peigen Xiao, 2023-01-04 **Environmental Issues of Deep-Sea Mining** Rahul Sharma, 2019-05-07 This volume discusses environmental issues associated with deep sea mining with an emphasis on potential impacts their consequences and the policy perspectives The book describes the methods and technologies to assess monitor and mitigate mining impacts on marine environments and also suggests various approaches for environmental management when conducting deep sea mining The volume brings together information and data for researchers contractors mining companies regulators and NGOs working in the field of deep sea mining Section 1 highlights the various environmental issues and discusses methods and approaches that can help in developing environmentally sustainable deep sea mining Section 2 details the results and outcomes of studies related to impact assessment of deep sea mining and proposes methods for monitoring Section 3 discusses the need and means for developing data standards and their application to deep sea mining Section 4 discusses the policies approaches and practices related to deep sea mining suggests formats for developing environmental impact statements EIS and environmental management

plans EMP and describes national and international regulations for environmental management Section 5 concludes the text by putting deep sea economic activities into an environmental context and conducting techno economic analyses of deep sea mining and processing

Towards A New Social Order? Real Democracy, Sustainability & Peace Patrick Holz, 2018-01-31 This contribution argues that a long established social order has been in place since the first stratified societies in the Near Middle East which unavoidably comes with substantial economic political and environmental repercussions Part I of the book dissects the various facets of this order which is termed the social dominance paradigm while in Part II a fundamentally different order the peace paradigm is introduced The latter rests on real democracy in the Athenian sense sustainability and peace As such both paradigms function as vehicles for further analysis and research while the peace paradigm also provides a rough plan for the implementation of transformational change Typically political economic social and environmental research seeks to increase specialized knowledge Here however the overall intent is to utilize interdisciplinary evidence and connect the dots between a number defining features within seemingly modern societies The argument is that these are in fact not modern at all but follow an ancient template of power control and coordination concentrated in the hands of the few Potentially this contribution can function as a trans disciplinary methodological framework as well as an information hub for researchers in the fields of political and social sciences history anthropology evolutionary biology organization and peace studies Practitioners who are interested in fundamental social change may also find the issues raised to be of interest As such this book provides a generalist evidence based discussion of a multi disciplinary nature that may pique the interest of both experts and amateurs alike

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