

RI

INDIAN INSTITUTE OF TECHNOLOGY  
KHARAGPUR

Date:                      FN / AN      Time : 2 Hrs.      Full Marks : 30      No. of Students : 140  
Autumn Mid-Semester, 2010-2011                      Sub No. EV 20001  
B.Tech.                      Subject Name: Environmental Science

SECTION – I

Answer all questions

Q.1. Answer the following:

- Explain 'break-point chlorination curve'.
- What are the functions of 'acidogenic bacteria' and 'methane forming bacteria' in anaerobic biological treatment plants?
- What are the compounds that come under 'oil and grease'? What are the effects of this particular group on the environment?
- Discuss the reactions involved in DO determination by Winkler's method?
- What do you mean by gravimetric analysis? Name and explain one analysis that is done using this procedure.

*(5 × 2 = 10 points)*

Q.2.

- The following information is available for a seeded 5-day BOD test conducted on a wastewater sample. Fifteen ml of the waste sample was added directly into a 300-mL BOD incubation bottle. The initial DO of the diluted sample was 8.8 mg/L and the final DO after 5 days was 1.9 mg/L. The corresponding initial and final DO of the seeded dilution water was 9.1 and 7.9 mg/L respectively. What is the 5-day BOD ( $BOD_5$ ) of the wastewater sample?
- Nitrogen gas in the atmosphere will dissolve in natural bodies. Using the Henry's law constant as 1610 atm/mol/l (at 25 °C) and the composition of the atmosphere at 78 % nitrogen, calculate the concentration (in mg/l) of  $N_2$  that would be expected in pure water at 25 °C. The vapor pressure of water at 25 °C is 0.03 atm.

P. T. O.

# Life Science2014 Paper

**H Kauffman**



## **Life Science 2014 Paper:**

*SET Life Science: Solved Exam Questions* Kailash Choudhary, D. Sondge, R.P. Saran, N. Soni, 2017-12-01 The present book SET Life Science Solved Papers is specially developed for the aspirants of SET Life Sciences Examinations This book includes previous solved papers SET Life Science papers of Maharashtra Andhra Pradesh Karnataka Tamil Nadu Kerala Gujarat and Rajasthan Main objective of this book is to develop confidence among the candidates appearing for SET examination in the field of Life Sciences Both fundamental and practical aspects of the subject have been covered by solved questions This book meets the challenging requirements of CSIR NET GATE IARI BARC and Ph D entrance of various Indian universities

**General Aptitude Compulsory Solved Papers** YCT Expert Team , 2023 24 NTA CSIR NET JRF PART A General Aptitude Compulsory Solved Papers *Dual-use life science research and biosecurity in the 21st Century: Social, Technical, Policy, and Ethical Challenges* Jonathan E. Suk, Kathleen M. Vogel, Amanda Jane Ozin, 2015-06-04 In September 2011 scientists announced new experimental findings that would not only threaten the conduct and publication of influenza research but would have significant policy and intelligence implications The findings presented a modified variant of the H5N1 avian influenza virus hereafter referred to as the H5N1 virus that was transmissible via aerosol between ferrets These results suggested a worrisome possibility the existence of a new airborne and highly lethal H5N1 virus that could cause a deadly global pandemic In response a series of international discussions on the nature of dual use life science arose These discussions addressed the complex social technical political security and ethical issues related to dual use research This Research Topic will be devoted to contributions that explore this matrix of issues from a variety of case study and international perspectives **Innovative Research in Life Sciences** E. Andrew Balas, 2018-11-08 I thoroughly enjoyed reading this book as it has taken me on a journey through time across the globe and through multiple disciplines Indeed we need to be thinking about these concepts and applying them every day to do our jobs better Farah Magrabi Macquarie University Australia The reader will find intriguing not only the title but also the content of the book I m also pleased that public health and even more specifically epidemiology has an important place in this ambitious discussion Elena Andresen Oregon Health Science University USA This book is very well written and addresses an important topic It presents many reasons why basic scientists researchers should establish collaborations and access information outside traditional means and not limit thinking but rather expand such and perhaps develop more innovative and translational research ventures that will advance science and not move it laterally Gerald Pepe Eastern Virginia Medical School USA This book gathers logically and presents interestingly with many examples the qualities and attitudes a researcher must possess in order to become successful On the long run the deep and carefully reexamined research will be the one that lasts Zolt n N da Babe Bolyai University Romania I really liked the five pillars delineating the components of humanism in research This book has made a major contribution to the research ethics literature David Fleming University of Missouri USA A comprehensive review of the

research phase of life sciences from design to discovery with suggestions to improve innovation This vital resource explores the creative processes leading to biomedical innovation identifies the obstacles and best practices of innovative laboratories and supports the production of effective science Innovative Research in Life Sciences draws on lessons from 400 award winning scientists and research from leading universities The book explores the innovative process in life sciences and puts the focus on how great ideas are born and become landmark scientific discoveries The text provides a unique resource for developing professional competencies and applied skills of life sciences researchers The book examines what happens before the scientific paper is submitted for publication or the innovation becomes legally protected This phase is the most neglected but most exciting in the process of scientific creativity and innovation The author identifies twelve competencies of innovative biomedical researchers that described and analyzed This important resource Highlights the research phase from design to discovery that precedes innovation disclosure Offers a step by step explanation of how to improve innovation Offers solutions for improving research and innovation productivity in the life sciences Contains a variety of statistical databases and a vast number of stories about individual discoveries Includes a process of published studies and national statistics of biomedical research and reviews the performance of research labs and academic institutions Written for academics and researchers in biomedicine pharmaceutical science life sciences drug discovery pharmacology Innovative Research in Life Sciences offers a guide to the creative processes leading to biomedical innovation and identifies the best practices of innovative scientists and laboratories

Research Handbook on Intellectual Property and the Life Sciences Duncan Matthews, Herbert Zech, 2017-06-30 Intellectual property IP is a key component of the life sciences one of the most dynamic and innovative fields of technology today At the same time the relationship between IP and the life sciences raises new public policy dilemmas The Research Handbook on Intellectual Property and the Life Sciences comprises contributions by leading experts from academia and industry to provide in depth analyses of key topics including pharmaceuticals diagnostics and genes plant innovations stem cells the role of competition law and access to medicines The Research Handbook focuses on the relationship between IP and the life sciences in Europe and the United States complemented by country specific case studies on Australia Brazil China India Japan Kenya South Africa and Thailand to provide a truly international perspective

**Life Science through Infographics** Nadia Higgins, 2018-01-01 Absorbing facts about the 11.3 million species on Earth might cause your brain to burst You need to take in huge timelines the first life on Earth formed 3.8 billion years ago huge numbers your body is made up of trillions of cells and even huger mysteries why species go extinct How can all these big numbers and concepts make more sense Infographics The charts maps and illustrations in this book tell a visual story to help you better understand key concepts about life science Crack open this book to explore mind boggling questions such as How do organisms evolve over millions of years How does DNA determine what you will look like Why are so many species struggling to survive today The answers are sure to be life expanding

How America Stacks Up Edward Alden, Rebecca

Strauss,2016-02-01 American leadership in the world is built on the foundation of its economic strength Yet the United States faces enormous economic competition abroad and threats to its economy at home In *How America Stacks Up Economic Competitiveness and U S Policy* Edward Alden Bernard L Schwartz senior fellow at the Council on Foreign Relations and director of the Renewing America initiative and Rebecca Strauss associate director of Renewing America focus on those areas of economic policy that are the most important for reinforcing America s competitive strengths Covering education transportation trade and investment corporate tax worker retraining regulation debt and deficits and innovation *How America Stacks Up* shows how in a highly competitive global economy these seemingly domestic issues are all crucial to U S success in the global economy The line between domestic economic policy and foreign economic policy is now almost invisible and getting these policies right matters for more than just U S living standards The United States ability to influence world events rests on a robust competitive economy But without further investment in education infrastructure and innovation Alden and Strauss show the United States runs the risk of endangering its greatest competitive advantage Through insightful analysis and engaging graphics *How America Stacks Up* outlines the challenges faced by the United States and prescribes solutions that will ensure a healthy competitive U S economy for years to come [Trends in Teaching Experimentation in the Life Sciences](#) Nancy J. Pelaez,Stephanie M. Gardner,Trevor R. Anderson,2022-05-11 This book is a guide for educators on how to develop and evaluate evidence based strategies for teaching biological experimentation to thereby improve existing and develop new curricula It unveils the flawed assumptions made at the classroom department and institutional level about what students are learning and what help they might need to develop competence in biological experimentation Specific case studies illustrate a comprehensive list of key scientific competencies that unpack what it means to be a competent experimental life scientist It includes explicit evidence based guidelines for educators regarding the teaching learning and assessment of biological research competencies The book also provides practical teacher guides and exemplars of assignments and assessments It contains a complete analysis of the variety of tools developed thus far to assess learning in this domain This book contributes to the growth of public understanding of biological issues including scientific literacy and the crucial importance of evidence based decision making around public policy It will be beneficial to life science instructors biology education researchers and science administrators who aim to improve teaching in life science departments Chapters 6 12 14 and 22 are available open access under a Creative Commons Attribution 4 0 International License via link [springer.com](https://www.springer.com) *Governance of Dual Use Research in the Life Sciences* National Academies of Sciences, Engineering, and Medicine,Division on Earth and Life Studies,Board on Life Sciences,2018-11-26 Continuing advances in science and technology offer the promise of providing tools to meet global challenges in health agriculture the environment and economic development some of the benefits are already being realized However such advances have the potential to challenge the oversight systems for responsible conduct of life sciences research with dual use potential research that may

have beneficial applications but that also could be misused to cause harm Between June 10 and 13 2018 more than 70 participants from 30 different countries and 5 international organizations took part in an international workshop The Governance of Dual Use Research in the Life Sciences Advancing Global Consensus on Research Oversight to promote global dialogue and increased common understandings of the essential elements of governance for such research Hosted by the Croatian Academy of Sciences and Arts in Zagreb Croatia the workshop was a collaboration among the InterAcademy Partnership the Croatian Academy the Croatian Society for Biosafety and Biosecurity and the U S National Academies of Sciences Engineering and Medicine This publication summarizes the presentations and discussions from the workshop

**Landscapes of Collectivity in the Life Sciences** Snait B. Gissis, Ehud Lamm, Ayelet Shavit, 2018-01-12 Broad perspective on collectivity in the life sciences from microorganisms to human consensus and the theoretical and empirical opportunities and challenges Many researchers and scholars in the life sciences have become increasingly critical of the traditional methodological focus on the individual This volume counters such methodological individualism by exploring recent and influential work in the life sciences that utilizes notions of collectivity sociality rich interactions and emergent phenomena as essential explanatory tools to handle numerous persistent scientific questions in the life sciences The contributors consider case studies of collectivity that range from microorganisms to human consensus discussing theoretical and empirical challenges and the innovative methods and solutions scientists have devised The contributors offer historical philosophical and biological perspectives on collectivity and describe collective phenomena seen in insects the immune system communication and human collectivity with examples ranging from cooperative transport in the longhorn crazy ant to the evolution of autobiographical memory They examine ways of explaining collectivity including case studies and modeling approaches and explore collectivity's explanatory power They present a comprehensive look at a specific case of collectivity the Holobiont notion the idea of a multi species collective a host and diverse microorganisms and the hologenome theory which posits that the holobiont and its hologenome are a unit of adaption The volume concludes with reflections on the work of the late physicist Eshel Ben Jacob pioneer in the study of collective phenomena in living systems Contributors Oren Bader John Beatty Dinah R Davison Daniel Dor Ofer Feinerman Raghavendra Gadagkar Scott F Gilbert Snait B Gissis Deborah M Gordon James Griesemer Zachariah I Grochau Wright Erik R Hanschen Eva Jablonka Mohit Kumar Jolly Anat Kolombus Ehud Lamm Herbert Levine Arnon Levy Xue Fei Li Elisabeth A Lloyd Yael Lubin Eva Maria Luef Ehud Meron Richard E Michod Samir Okasha Simone Pika Joan Roughgarden Eugene Rosenberg Ayelet Shavit Yael Silver Alfred I Tauber Ilana Zilber Rosenberg

**Global guidance framework for the responsible use of the life sciences**, 2022-09-13 The framework aims to provide global perspectives on principles tools and mechanisms to support Member States and relevant stakeholders to mitigate and prevent biorisks and govern dual use research The framework adopts the One health approach and focuses on the role that responsible life sciences research can play in preventing and mitigating risks caused by accidents

inadvertent or deliberate misuse with the intention to cause harm to humans nonhuman animals plants and agriculture and the environment The framework is primarily intended for those who have responsibilities in the governance of biorisks such as policy makers and regulators in charge of developing national policies to harness the potential benefits of the life sciences while constraining their risks The framework is also directed towards scientists and research institutions educators trainers project management staff funding bodies publishers editors the private sector and all relevant stakeholders that are part of the research life cycle The governance of biorisks is an issue that should engage all countries although countries will have different contexts needs and starting points Mitigating these risks will require individual and collective actions among different stakeholders and disciplines Mitigating biorisks and governing dual use research is a shared responsibility

*Theology, Science and Life* Carmody Grey, 2023-01-26 Offering a bold intervention in the ongoing debate about the relationship between theology and science Theology Science and Life proposes that the strong demarcation between the two spheres is unsustainable theology occurs within and not outside what we call science and science occurs within and not outside theology The book applies this in a penetrating way to the most topical contentious and philosophically charged science of late modernity biology Rejecting the easy dualism of expressions such as theology and science theology or science modern biology is examined so as to illuminate the nature of both In making this argument the book achieves two further things It is the first major English language reception and application of the thought of philosopher Hans Jonas in theology and it makes a decisive contribution to the unfolding reception of Radical Orthodoxy one of the most influential schools in contemporary Anglophone theology

**Critical Role of Animal Science Research in Food Security and Sustainability** National Research Council, Division on Earth and Life Sciences, Board on Agriculture and Natural Resources, Policy and Global Affairs, Science and Technology for Sustainability Program, Committee on Considerations for the Future of Animal Science Research, 2015-03-31 By 2050 the world's population is projected to grow by one third reaching between 9 and 10 billion With globalization and expected growth in global affluence a substantial increase in per capita meat dairy and fish consumption is also anticipated The demand for calories from animal products will nearly double highlighting the critical importance of the world's animal agriculture system Meeting the nutritional needs of this population and its demand for animal products will require a significant investment of resources as well as policy changes that are supportive of agricultural production Ensuring sustainable agricultural growth will be essential to addressing this global challenge to food security Critical Role of Animal Science Research in Food Security and Sustainability identifies areas of research and development technology and resource needs for research in the field of animal agriculture both nationally and internationally This report assesses the global demand for products of animal origin in 2050 within the framework of ensuring global food security evaluates how climate change and natural resource constraints may impact the ability to meet future global demand for animal products in sustainable production systems and identifies factors that may impact the ability of the United States

to meet demand for animal products including the need for trained human capital product safety and quality and effective communication and adoption of new knowledge information and technologies The agricultural sector worldwide faces numerous daunting challenges that will require innovations new technologies and new ways of approaching agriculture if the food feed and fiber needs of the global population are to be met The recommendations of Critical Role of Animal Science Research in Food Security and Sustainability will inform a new roadmap for animal science research to meet the challenges of sustainable animal production in the 21st century Governance of Biotechnology in Post-Soviet Russia Tatyana

Novossiolova, 2017-07-19 This book provides an up to date analysis of the governance of biotechnology in post Soviet Russia The rapid advancement of the life sciences over the past few decades promises to bring tremendous benefits but also raises significant social ethical legal and security risks Nations adaptability to the twin challenges of attempting to secure the benefits while reducing the risks and threats is a large and still burgeoning governance challenge Here Novossiolova cuts across several sets of literature bringing together elements of the anthropological study of culture history of science and technology management and international governance and Soviet history and politics Due to its multidisciplinary approach in depth analysis accessible style and extensive reference list this text offers invaluable insights into the normative dimensions of the governance of biotechnology unpacking both the formal and intangible attributes and artefacts of biotechnology policy and practice in Russia **Microbial Biodegradation and Bioremediation** Surajit Das, Hirak Ranjan Dash, 2021-11-24

**Microbial Biodegradation and Bioremediation Techniques and Case Studies for Environmental Pollution** Second Edition describes the successful application of microbes and their derivatives for bioremediation of potentially toxic and relatively novel compounds in the environment Our natural biodiversity and environment is in danger due to the release of continuously emerging potential pollutants by anthropogenic activities Though many attempts have been made to eradicate and remediate these noxious elements thousands of xenobiotics of relatively new entities emerge every day thus worsening the situation Primitive microorganisms are highly adaptable to toxic environments and can reduce the load of toxic elements by their successful transformation and remediation This completely updated new edition presents many new technologies and techniques and includes theoretical context and case studies in every chapter Microbial Biodegradation and Bioremediation Techniques and Case Studies for Environmental Pollution Second Edition serves as a single source reference and encompasses all categories of pollutants and their applications in a convenient comprehensive format for researchers in environmental science and engineering pollution environmental microbiology and biotechnology Describes many novel approaches of microbial bioremediation including genetic engineering metagenomics microbial fuel cell technology biosurfactants and biofilm based bioremediation Introduces relatively new hazardous elements and their bioremediation practices including oil spills military waste water greenhouse gases polythene wastes and more Provides the most advanced techniques in the field of bioremediation including insilico approach microbes as pollution indicators use of bioreactors



techniques of pollution monitoring and more Completely updated and expanded to include topics and techniques such as genetically engineered bacteria environmental health nanoremediation heavy metals contaminant transport and in situ and ex situ methods Includes theoretical context and case studies within each chapter

**Dangerous Science** Daniel J. Rozell, 2020-02-04 The public is generally enthusiastic about the latest science and technology but sometimes research threatens the physical safety or ethical norms of society When this happens scientists and engineers can find themselves unprepared in the midst of an intense science policy debate In the absence of convincing evidence technological optimists and skeptics struggle to find common values on which to build consensus The best way to avoid these situations is to sidestep the instigating controversy by using a broad risk benefit assessment as a risk exploration tool to help scientists and engineers design experiments and technologies that accomplish intended goals while avoiding physical or moral dangers *Dangerous Science* explores the intersection of science policy and risk analysis to detail failures in current science policy practices and what can be done to help minimize the negative impacts of science and technology on society

*Joining Complexity Science and Social Simulation for Innovation Policy* Petra Ahrweiler, Nigel Gilbert, Andreas Pyka, 2016-04-26 This book explores how complexity science and social simulation can be used to improve and inform policy making in both research and innovation Beginning with an introduction to conceptual definitions of complexity science and social simulation the book demonstrates the validity of the underlying integrated research framework used throughout It is then divided into two parts with the first investigating the effects and impacts of policy making on the structure composition and outputs of research and innovation networks using the agent based SKIN platform Simulating Knowledge Dynamics in Innovation Networks <http://cress.soc.surrey.ac.uk/SKIN/> The second half of the book discusses a research initiative funded by the Irish government focusing on innovation policy simulation for economic recovery This consists of empirical research on Irish research and innovation networks and SKIN based simulations of technology transfer issues and the commercialization of research in areas with high potential for innovation and economic growth The book concludes with reflections on the maturity and utility of an approach combining complexity science and social simulation for research and innovation policy *Joining Complexity Science and Social Simulation for Innovation Policy* will be of particular interest to scientists concerned with innovation and complex systems including economists sociologists and complexity researchers as well as students and practitioners such as innovation policymakers and innovation business managers

**Leading Pharmaceutical Innovation** Oliver Gassmann, Alexander Schuhmacher, Max von Zedtwitz, Gerrit Reepmeyer, 2018-05-10 Pharmaceutical giants have been doubling their investments in drug development only to see new drug approvals to remain constant for the past decade This book investigates and highlights a set of proactive strategies aimed at generating sustainable competitive advantage for its protagonists based on value generating business practices We focus on three sources of pharmaceutical innovation new management methods in the drug development pipeline new technologies as enablers for cutting edge R D and new forms of internationalisation such

as outside in innovation in the early phases of R D      **Precautionary Reasoning in Environmental and Public Health Policy** David B. Resnik, 2021-03-27 This book fills a gap in the literature on the Precautionary Principle by placing the principle within the wider context of precautionary reasoning and uses philosophical arguments and case studies to demonstrate when it does and does not apply The book invites the reader to take a step back from the controversy surrounding the Precautionary Principle and consider the overarching rationales for responding to threats to the environment or public health It provides practical guidance and probing insight for the intended audience including scholars students journalists and policymakers      Innovation, Regional Development and the Life Sciences Kean Birch, 2016-10-14 The life sciences is an industrial sector that covers the development of biological products and the use of biological processes in the production of goods services and energy This sector is frequently presented as a major opportunity for policy makers to upgrade and renew regional economies leading to social and economic development through support for high tech innovation Innovation Regional Development and the Life Sciences analyses where innovation happens in the life sciences why it happens in those places and what this means for regional development policies and strategies Focusing on the UK and Europe its arguments are relevant to a variety of countries and regions pursuing high tech innovation and development policies The book s theoretical approach incorporates diverse geographies e g global national and regional and political economic forces e g discourses governance and finance in order to understand where innovation happens in the life sciences where and how value circulates in the life sciences and who captures the value produced in life sciences innovation This book will be of interest to researchers students and policy makers dealing with regional local economic development

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