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As technology advances, mobile devices have become more affordable and useful to countries around the world. The use of technology can significantly enhance educational environments for students. It is imperative to study new software, hardware, and gadgets for the improvement of teaching and learning practices. Mobile Devices in Education: Breakthroughs in Research and Practice is a collection of innovative research on the methods and applications of mobile technologies in learning and explores best practices of mobile learning in educational settings. Highlighting a range of topics such as educational technologies, curriculum development, and game-based learning, this publication is an ideal reference source for teachers, principals, curriculum developers, educational software developers, instructional designers, administrators, researchers, professionals, upper-level students, academicians, and practitioners actively involved in the education field. What happens when the international community simultaneously pursues peace and justice in response to ongoing conflicts? What are the effects of interventions by the International Criminal Court (ICC) on the wars in which the institution intervenes? Is holding perpetrators of mass atrocities accountable a help or hindrance to conflict resolution? This book offers an in-depth examination of the effects of interventions by the ICC on peace, justice and conflict processes. The 'peace versus justice' debate, wherein it is argued that the ICC has either positive or negative effects on 'peace', has spawned in response to the Court's propensity to intervene in conflicts as they still rage. This book is a response to, and a critical engagement with, this debate. Building on theoretical and analytical insights from the fields of conflict and peace studies, conflict resolution, and negotiation theory, the book develops a novel analytical framework to study the Court's effects on peace, justice, and conflict processes. This framework is applied to two cases: Libya and northern Uganda. Drawing on extensive fieldwork, the core of the book examines the empirical effects of the ICC on each case. The book also examines why the ICC has the effects that it does, delineating the relationship between the interests of states that refer situations to the Court and the ICC's institutional interests, arguing that the negotiation of these interests determines which side of a conflict the ICC targets and thus its effects on peace, justice, and conflict processes. While the effects of the ICC's interventions are ultimately and inevitably mixed, the book makes a unique contribution to the empirical record on ICC interventions and presents a novel and sophisticated means of studying, analyzing, and understanding the effects of the Court's interventions in Libya, northern Uganda - and beyond. GK GENERAL AWARENESS MULTI TASKING STAFF MULTIPLE CHOICE QUESTIONS keywords: ssc central police forces cpo capf , ssc combined graduate level cgl, combined higher secondary level exam chsl 10+2 level exam, ssc ldc udc data entry operator exam, ssc mts matriculation level exam, ssc je civil mechanical electrical engineering exam, ssc scientific assistant exam, ssc english ajay kumar singh, ssc english by neetu singh, ssc english grammar, ssc english arihant publication, ssc previous year solved papers, ssc general awareness, ssc gk lucent, ssc math rakesh yadav, ssc previous year question bank, ssc reasoning chapterwise solved papers, ssc disha books, ssc cgl questions, ssc cpo questions, ssc mts questions, ssc chsl questions, ssc ldc clerk, ssc practice sets, ssc online test. ssc math chapterwise solved papers, ssc english kiran publication, ssc cgl/cpo/mts/chsl/je exam books, ssc online practice sets for computer based exam , ssc kiran books disha arihant lucen gk, ssc neetu singh rakesh yadav ajay singh books, ssc history geography polity economy science mcq, ssc math reasoning english gkchapterwise papers, last year previous year solved papers, online practice test papers mock test papers, computer based practice sets, online test series, exam guide manual books, gk, general knowledge awareness, mathematics quantitative aptitude, reasoning, english, previous year questions mcqs This book covers many facets of plant selenium (Se) accumulation: molecular genetics, biochemistry, physiology, and ecological and evolutionary aspects. Broader impacts and applications of plant Se accumulation also receive attention. Plant Se accumulation is very relevant for environmental and human health. Selenium is both essential at low levels and toxic at high levels, and both Se deficiency and toxicity are problems worldwide. Selenium can positively affect crop productivity and nutritional value. Plants may also be used to clean up excess environmental Se. Selenium in plants has profound ecological impact, and likely contributes to Se movement in ecosystems and global Se cycling. DP's SSC MTS General Awareness [Previous Year Questions] Keywords: SSC Central police forces CPO

CAPF , SSC combined graduate level CGL, Combined higher secondary level exam chsl 10+2 level exam, ssc ldc udc data entry operator exam, ssc mts matriculation level exam, ssc je civil mechanical electrical engineering exam, ssc scientific assistant exam, Ssc English ajay Kumar singh, Ssc English by neetu singh, Ssc English grammar, Ssc English arihant publication, ssc previous year solved papers, ssc general awareness, ssc gk lucent, ssc math rakesh Yadav, ssc previous year question bank, ssc reasoning chapterwise solved papers, ssc disha books, ssc cgl questions, ssc cpo questions, ssc mts questions, ssc chsl questions, ssc ldc clerk, ssc practice sets, ssc online test. Ssc math chapterwise solved papers, Ssc english kiran publication, SSC cgl/cpo/mts/chsl/je exam books, ssc online practice sets for computer based exam , ssc kiran books disha arihant lucen gk, ssc neetu singh rakesh yadav ajay singh books, ssc history geography polity economy science mcq, ssc math reasoning english gk chapterwise papers Reasoning is equally weighed section in any competitive examination. Reasoning tests the thinking power and mind applicability skills of the candidates. The questions on reasoning asked in various competitive examinations are not easy to solve without having enough practice. The revised edition of A New Approach to Reasoning will help candidates master the ‘Tricks of the Trade’ as it covers all the three types of reasoning very much comprehensively. This book has been divided into 3 Sections – Verbal Reasoning, Analytical Reasoning and Non-Verbal Reasoning each sub-divided into number of chapters with different types of questions of multiple patterns asked in various exams. The Verbal Reasoning section covers Analogy, Clocks, Calendar, Puzzles, Coding-Decoding, Classification, Number Series, Letter Series, Blood Relations, Clerical Aptitude, etc. whereas, the Analytical Reasoning section covers Statement & Arguments, Statement & Assumptions, Course of Action, Cause & Effects, Syllogism, etc. The Non-Verbal Reasoning section covers Analogy, Classification, Completion of Figures, Cubes, Paper Folding, Mirror Image, Water Image, Figure Matrix, etc. Two Leveled Exercises have been given for practice. More than 2000 Previous Years’ Questions of different competitive examinations including MAT and other MBA entrances, Bank PO, Clerk, SSC, LIC, RBI, RRB, B.Ed. etc along with their authentic and detailed solutions have been covered in the exercises. The ample number of previous years’ questions will help the candidates get an insight into the trends and types of questions asked in the test of reasoning in various competitive and recruitment examinations. Useful book for GATE / IES / UPSC / PSUs and other competitive examinations. Latest objective type questions with answers. About 5000 objective type questions • NEET (UG) Year-wise Solved Paper (2006 – 2022) – 24 Papers Fully solved • NEET (UG) latest solved paper 2022 fully solved • Mind Map: A single page snapshot of the entire chapter for longer retention • Mnemonics to boost memory and confidence • Oswaal QR Codes: Easy to scan QR codes for online content • Analytical Report: Unit-wise questions distribution in each subject • Two SQPs based on the latest pattern • Tips to crack NEET • Trend Analysis: Subject-wise & Chapter-wise Know Data science with numpy, pandas, scipy, sklearn DESCRIPTION “Data science and Machine learning interview questions using Python,” a book which is a true companion of people aspiring for data science and machine learning, and it provides answers to most asked questions in an easy to remember and presentable form. Book mainly intended to be used as last-minute revision, before the interview, as all the important concepts and various terminologies have been given in a very simple and understandable format. Many examples have been provided so that the same can be used while giving answers in an interview. The book is divided into six chapters, which starts with the Data Science Basic Questions and Terms then covers the questions related to Python Programming, Numpy, Pandas, Scipy, and its Applications, then at the last covers Matplotlib and Statistics with Excel Sheet. KEY FEATURES - Questions related to core/basic Python, Excel, basic and advanced statistics are included - Book will prove to be a companion whenever you want to go for an interview - Simple to use words have been used in the answers for the questions to help ease of remembering WHAT WILL YOU LEARN - You can learn the basic concept and terms related to Data Science, python programming - You will get to learn how to program in python, basics of Numpy - You will get familiarity with the questions asked in an interview related to Pandas and learn the concepts of Scipy, Matplotlib, and Statistics with Excel Sheet WHO THIS BOOK IS FOR The book is mainly intended to help people represent their answer in a sensible way to the interviewer. The answers have been carefully rendered in a way to make things quite simple and yet represent the seriousness and complexity of the matter. Since data science is incomplete without mathematics, we have also included a part of the book dedicated to statistics. Table of Contents 1. Data Science Basic Questions and Terms 2. Python Programming Questions 3. Numpy Interview Questions 4. Pandas Interview Questions 5. Scipy and its Applications 6. Matplotlib Samples to Remember 7. Statistics with Excel Sheet Reasoning which is a equally weighed section in many competitive examinations tests the thinking power and mind applicability skills of the candidates. The questions of reasoning asked in various competitive examinations are not easy to solve without having enough practice. The Hand on Guide to Analytical Reasoning & Logical Reasoning will help aspirants master the ‘Tricks of the Trade’ as it covers analytical reasoning and logical reasoning comprehensively. This book has been divided into two Sections – Analytical Reasoning and Logical Reasoning each sub-divided into number of chapters with different types of questions of multiple patterns asked in various exams. The Analytical Reasoning section covers Seating Arrangement, Complex Arrangement, Ranking & Time Sequence Test, Blood Relations, Direction Sense Test, Conditions & Grouping and Simple & Coded Inequality whereas the Logical Reasoning section covers Syllogism, Statement & Assumptions, Statement & Arguments, Passage & Conclusion, Statement & Course of Action, Decision Making, Assertion & Reason, Cause & Effect and Input-Output. Ample numbers of solved problems have been covered in each chapter followed by practice exercises at the end to help aspirants revised and practice the concepts discussed in each chapter. Also the book contains previous years’ solved questions of different competitive examinations like CAT, MAT, CMAT, Bank (PO/Clerk), UPSC, SSC and other state PSC Exams, etc to help aspirants get an insight into the types of reasoning questions asked. The book will be highly useful for aspirants preparing for Management (CAT, XAT, CMAT, IIFT, SNAP & other), Bank (PO & Clerk), SSC (CGL/CPO), UPSC & other state PSC Exams, etc. As the book covers Logical and Analytical Reasoning both in detail with ample number of solved problems, it for sure will help aspirants prepare both the types in a thorough manner and will act as a hand on guide to analytical reasoning & logical reasoning. This book, in Q&A format, addresses a wide range of clinically relevant topics and issues in Nonmalignant Hematology, or “Benign Hematology,” with a view to offering a robust, engaging tool that will assist every hematologist and oncologist (pediatric and adult equally) in making decisions during day-to-day practice. The entire spectrum of the specialty is covered in more than 60 exceptional chapters written by acknowledged authorities in the field. The content is organized into well-designed broad sections on red cell disorders, platelet and coagulation disorders, coagulopathy in systemic diseases, thromboembolic disease and its management (including surgical), immune system and related disorders, hemostasis and thrombosis during pregnancy and in the newborn and elderly, and Transfusion Medicine. A key aspect of the book is the opportunity it affords expert physicians to express well-reasoned opinions regarding complex issues in Nonmalignant Hematology. Readers will find that it provides a practical and immediately applicable compendium of answers to often complex and vexing questions. It will appeal to residents, fellows, house officers and more experienced practitioners around the globe. This volume contributes to emerging interdisciplinary conversations in higher education about how to refine internationalization in terms of praxis and how to coordinate curricular and pedagogical efforts to achieve meaningful learning outcomes for all students. The chapters provide suggestions for how L2 specialists can reframe their work in their individual programs to help internationalize the entire university in ways that lead to improved learning outcomes for students at different points in their degree programs, including: Orientation programs (early arrival on campus, before classes start); language center contexts (support during studies); volunteer programs for International Teaching Assistants (ITA)

and undergraduate students [and more]. SBA Questions for the Part 2 MRCOG is a valuable preparation resource aimed at those specialising in obstetrics and gynaecology who are planning to take the Part 2 MRCOG examination. It contains two hundred practice single best answer questions written by MRCOG question writers, with accompanying explanations and references. It also contains an introduction to the new format of the examination and the rationale for the changes. The first section consists of two hundred single best answers allowing the reader to test their knowledge. The second section lists the correct response accompanied by an explanation and suggestions for further reading. SBA Questions for the Part 2 MRCOG is the only official preparation book produced by the RCOG and is therefore essential reading for candidates sitting this examination in its new format. 2023-24 NEET/AIPMT Physics, Chemistry & Biology Solved Papers • Fully solved 15 sample question Papers as per the latest pattern of 2023 for PCB • Hints & Shortcuts given for tricky questions • Latest solved paper of 2022 fully solved. • NEET Solved Papers 2021 & 2022 fully solved • Mind Map: A single page snapshot of the entire chapter for longer retention • Mnemonics to boost memory and confidence • Oswaal QR Codes: Easy to scan QR codes for online content • Tips to crack NEET • NEET (UG) Year-wise Solved Paper (2006 – 2022) – 24 Papers Fully solved • NEET (UG) latest solved paper 2022 fully solved • Mind Map: A single page snapshot of the entire chapter for longer retention • Mnemonics to boost memory and confidence • Oswaal QR Codes: Easy to scan QR codes for online content • Analytical Report: Unit-wise questions distribution in each subject • Two SQPs based on the latest pattern • Tips to crack NEET • Trend Analysis: Subject-wise & Chapter-wise

Biolinguistics is a highly interdisciplinary field that seeks the rapprochement between linguistics and biology. Linking theoretical linguistics, theoretical biology, genetics, neuroscience and cognitive psychology, this book offers a collection of chapters situating the enterprise conceptually, highlighting both the promises and challenges of the field, and chapters focusing on the challenges and prospects of taking interdisciplinarity seriously. It provides concrete illustrations of some of the cutting-edge research in biolinguistics and piques the interest of undergraduate students looking for a field to major in and inspires graduate students on possible research directions. It is also meant to show to specialists in adjacent fields how a particular strand of theoretical linguistics relates to their concerns, and in so doing, the book intends to foster collaboration across disciplines. 1. A New Approach to Reasoning' is the appropriate and best reference book on reasoning 2. The book is divided into 3 sections; verbal, non verbal and Analytical 3. Each chapter begins with the introduction and cover every type 4. Each type is supported with examples and separate exercise with solutions 5. Master Exercise has ample number of the questions and previous years solved Papers In any general, competitive or entrance examination, the section of Reasoning and General Intelligence is capturing the central stage and carrying equal weightage like any other section. The section of Reasoning basically tests the thinking power and mind applicability skills. The book 'A New Approach to Reasoning' is the most appropriate and best reference book on reasoning. It caters and develop skills in Verbal, Non-Verbal and Analytical reasoning for various competitive and management entrance. Each chapter begins with the brief introduction about the chapter and covers all possible types. Each Type has its specific theory that is supported with example and separate exercise along with detailed solutions. At the end of each chapter, there is a Master Exercise that has ample number of questions and previous Years Solved Papers based on each type. Every question has its accurate and detailed answers. TOC Verbal Reasoning, Non-Verbal Reasoning and Analytical Reasoning

Climate Change Adaptation for Health and Social Services addresses concerns from the health and community services sector, including local government, about how to respond to climate change and its impacts on communities. What should an intervention framework for the community-based health and social services sector contain and how can it complement an organisation's core values, role and work programs? What current direct and indirect impacts of climate change are most relevant to organisations and the communities they serve? Which population groups are most vulnerable to climate change and what are the impacts on them? Above all, what can be done to reduce the current risks from climate change to clients, communities and organisations? Written by expert researchers and practitioners, this book presents existing research, innovative practice and useful tools to support organisations taking practical steps towards adaptation to the impacts of climate change on people. It examines the evidence of climate change impacts on six of the most vulnerable population groups – people with disability; older people; women and children; Aboriginal people; rural people; and people from culturally and linguistically diverse backgrounds – as well as discussing effective interventions. Other key issues covered include health and social impacts of climate change, adaptation, mitigation, climate change communication, organisational adaptation and a case study of innovation illustrating some of the book's themes. Accessible, informative and incorporating extensive evidence and experience, Climate Change Adaptation for Health and Social Services is relevant for anyone within the health and community services sector concerned about climate change and its impacts on their community. A line of research in cognitive science over several decades has been dedicated to finding an innate, language-specific cognitive system, a faculty which allows human infants to acquire languages natively without formal instruction and within short periods of time. In recent years, this search has attracted significant controversy in cognitive science generally, and in the language sciences specifically. Some maintain that the search has had meaningful results, though there are different views as to what the findings are: ranging from the view that there is a rich and rather specific set of principles, to the idea that the contents of the language faculty are - while specifiable - in fact extremely minimal. But other researchers rigorously oppose the continuation of this search, arguing that decades of effort have turned up nothing. The fact remains that the proposal of a language-specific faculty was made for a good reason, namely as an attempt to solve the vexing puzzle of language in our species. Much work has been developing to address this, and specifically, to look for ways to characterize the language faculty as an emergent phenomenon; i.e., not as a dedicated, language-specific system, but as the emergent outcome of a set of uniquely human but not specifically linguistic factors, in combination. A number of theoretical and empirical approaches are being developed in order to account for the great puzzles of language - language processing, language usage, language acquisition, the nature of grammar, and language change and diversification. This research topic aims at reviewing and exploring these recent developments and establishing bridges between these young frameworks, as well as with the traditions that have come before. The goal of this Research Topic is to focus on current developments in what many regard as a paradigm shift in the language sciences. In this Research Topic, we want to ask: If current explicit proposals for an innate, dedicated faculty for language are not supported by data or arguments, how can we solve the problems that UG was proposed to solve? Is it possible to solve the puzzles of language in our species with an appeal to causes that are not specifically linguistic? Reasoning is equally weighed section in any competitive examination. Reasoning tests the thinking power and mind applicability skills of the candidates. The questions on reasoning asked in various competitive examinations are not easy to solve without having enough practice. Verbal & Analytical Reasoning will help candidates master the 'Tricks of the Trade' as it covers verbal and analytical reasoning very much comprehensively. This book has been divided into two Sections – Verbal Reasoning and Analytical Reasoning each sub-divided into number of chapters with different types of questions of multiple patterns asked in various exams. The Verbal Reasoning section has been divided into 21 chapters covering Analogy, Classification, Series, Coding-Decoding, Logical Arrangement of Words, Mathematical Operation, Venn Diagram, Clocks, Calendar, Decision Making, Input-Output, Puzzles, Data Sufficiency, etc whereas the Analytical Reasoning section has been divided into eight chapters covering Statement & Arguments, Statement & Assumptions, Course of Action, Passage & Conclusions, Cause & Effects, Syllogism, etc. Ample number of solved problems have been covered in each chapter followed by practice exercises at the end to help aspirants practice the concepts discussed in each chapter. Also the book contains previous years' solved questions of different competitive

examinations like CAT, XAT, UPSC, SSC, etc to help aspirants get an insight into the types of reasoning questions asked. The book will be highly useful for aspirants preparing for Management (CAT, XAT, CMAT, IIFT, SNAP & other), Bank (PO & Clerk), SSC (CGL, 10+2, Steno, FCI, CPO & Multitasking), LIC (AAO & ADO), CLAT, RRB, UPSC and other state PSC Exams. As the book covers Verbal and Analytical Reasoning both in detail with ample number of solved problems, it for sure will help aspirants prepare both the types in a thorough manner and score high in the upcoming competitive & recruitment exams. DP's SSC Subjectwise GK Series: GENERAL SCIENCE [Previous Year Questions] Keywords: SSC Central police forces CPO CAPF , SSC combined graduate level CGL, Combined higher secondary level exam chsl 10+2 level exam, ssc ldc udc data entry operator exam, ssc mts matriculation level exam, ssc je civil mechanical electrical engineering exam, ssc scientific assistant exam, Ssc English ajay Kumar singh, Ssc English by neetu singh, Ssc English grammar, Ssc English arihant publication, ssc previous year solved papers, ssc general awareness, ssc gk lucent, ssc math rakesh Yadav, ssc previous year question bank, ssc reasoning chapterwise solved papers, ssc disha books, ssc cgl questions, ssc cpo questions, ssc mts questions, ssc chsl questions, ssc ldc clerk, ssc practice sets, ssc online test. Ssc math chapterwise solved papers, Ssc english kiran publication, SSC cgl/cpo/mts/chsl/je exam books, ssc online practice sets for computer based exam , ssc kiran books disha arihant lucent gk, ssc neetu singh rakesh yadav ajay singh books, ssc history geography polity economy science mcq, ssc math reasoning english gk chapterwise papers "This handbook provides a critical guide to the most central proposition in modern linguistics: the notion, generally known as universal grammar, that a universal set of structural principles underlies the grammatical diversity of the world's languages. It will be a vital reference for linguists, philosophers, and cognitive scientists."-- Health and safety of food and feed are the most important criteria for their quality. The quality of feed is in turn important for animal health, the environment and for the safety of food from animal origin. Fungi belonging to the Fusarium genus are widespread in crops causing plant diseases and producing toxic metabolites. Fusarium species can colonize plants during their growth on the field and cause serious damage in terms of yield and quality of harvested grains. One of the most important fungal diseases of wheat and other cereals in the world is Fusarium head blight caused by the fungal pathogens Fusarium graminearum and Fusarium culmorum and others. In addition, these fungi produce mycotoxins, contaminating food and feed. The most important Fusarium mycotoxins include trichothecenes, zearalenone and fumonisins, primarily because of their prevalence, but also because of the toxic effect to humans and animals. However, these fungi produce also other mycotoxins such as moniliformin, beauvericin, enniatin or fusarins. Food and feed can be contaminated with mycotoxins at various stages in the production chain resulting in serious problems with health, safety and economic losses. It is estimated that 25% of the crop in the world each year are contaminated with these metabolites, the problem affects both industrialized countries and developing countries. The aim of this Research Topic of Frontiers in Microbiology is to publish state of the art research about occurrence and genomics of Fusarium species and their mycotoxins in the whole food and feed chain starting from the crops as well as implications for health and economic aspects. This research topic highlights the current knowledge on the plant diseases caused by Fusarium fungi as well as all aspects of Fusarium mycotoxin contamination of crops, food and feed, taking into account decontamination methods. The ecosystem services (ES) framework opens the door to common ground between ecology science and economics in facing the challenge of planetary sustainability. Application of the available methodologies and instruments reveals both the high potential and the controversies related to this new socio-ecological management approach. Feeding on the research, reviews and testimonies presented at the XV International Summer School on Environment (ISSE) of the University of Girona (2015), this proceedings book displays the main concepts related the ES approach and outcomes from case studies dealing with its operationalization. However, the ultimate goal of this crosswalk language remains; changing mentalities and raising awareness to the point of installing new socio-ecological values, leading society to economic models in which ES conservation is understood as subsistence premise and therefore an intrinsic component of profits. El marc de serveis dels ecosistemes (ES) obre la porta a un terreny comú entre l'ecologia i l'economia de la ciència davant del repte de la sostenibilitat planetària . L'aplicació de les metodologies i instruments disponibles revela tant l'alt potencial i les controvèrsies relacionades amb aquest nou enfocament de la gestió socio- ecològica. L'alimentació en les investigacions, opinions i testimonis presentats a l'Escola XV Internacional d'Estiu sobre el Medi Ambient (IESS) de la Universitat de Girona (2015) , aquest llibre procediment mostra els principals conceptes relacionats amb l'enfocament d'ES i els resultats dels estudis de cas que s'ocupen de la seva posada en funcionament . No obstant això , l'objectiu final d'aquest llenguatge encreuament roman ; canviar les mentalitats i la sensibilització fins al punt de la instal·lació de nous valors socio- ecològica , el que porta la societat als models econòmics en què ÉS la conservació s'entén com a premissa de subsistència i , per tant , un component intrínsec dels guanys. El marco de servicios de los ecosistemas (ES) abre la puerta a un terreno común entre la ecología y la economía de la ciencia frente al reto de la sostenibilidad planetaria. La aplicación de las metodologías e instrumentos disponibles revela tanto el alto potencial y las controversias relacionadas con este nuevo enfoque de la gestión socio- ecológica. La alimentación en las investigaciones , opiniones y testimonios presentados en la Escuela XV Internacional de Verano sobre el Medio Ambiente (IESS) de la Universidad de Girona (2015) , este libro procedimiento muestra los principales conceptos relacionados con el enfoque de ES y los resultados de los estudios de caso que se ocupan de su puesta en funcionamiento . Sin embargo , el objetivo final de este lenguaje cruce permanece ; cambiar las mentalidades y la sensibilización hasta el punto de la instalación de nuevos valores socio - ecológica , lo que lleva la sociedad a los modelos económicos en los que ES la conservación se entiende como premisa de subsistencia y , por tanto, un componente intrínseco de las ganancias. NEET (UG) Year-wise Solved Paper (2006 – 2021) – 23 Papers Fully solved Mind Map: A single page snapshot of the entire chapter for longer retention Mnemonics to boost memory and confidence Oswaal QR Codes: Easy to scan QR codes for online content Analytical Report: Unit-wise questions distribution in each subject Two SQPs based on the latest pattern Tips & Tricks to crack NEET Exam Trend Analysis: Subject-wise & Chapter-wise Since the birth of civilisation, human beings have manipulated other life-forms. We have selectively bred plants and animals for thousands of years to maximize agricultural production and cater to our tastes in pets. The observation of the creation of artificial animal and plant variants was a key stimulant for Charles Darwin's theory of evolution. The ability to directly engineer the genomes of organisms first became possible in the 1970s, when the gene for human insulin was introduced into bacteria to produce this protein for diabetics. At the same time, mice were modified to produce human growth hormone, and grew huge as a result. But these were only our first tottering steps into the possibilities of genetic engineering. In the past few years, the pace of progress has accelerated enormously. We can now cut and paste genes using molecular scissors with astonishing ease, and the new technology of genome editing can be applied to practically any species of plants or animals. 'Mutation chain reaction' can be used to alter the genes of a population of pests, such as flies; as the modified creatures breed, the mutation is spread through the population, so that within a few generations the organism is almost completely altered. At the same time, scientists are also beginning to synthesize new organisms from scratch. These new technologies hold much promise for improving lives. Genome editing has already been used clinically to treat AIDS patients, by genetically modifying their white blood cells to be resistant to HIV. In agriculture, genome editing could be used to engineer species with increased food output, and the ability to thrive in challenging climates. New bacterial forms may be used to generate energy. But these powerful new techniques also raise important ethical dilemmas and potential dangers, pressing issues that are already upon us given the speed of scientific developments. To what extent should parents be able to manipulate the genetics of their offspring - and would designer babies be limited to the rich? Can we effectively weigh up the risks from

introducing synthetic lifeforms into complex ecosystems? John Parrington explains the nature and possibilities of these new scientific developments, which could usher in a brave, new world. We must rapidly come to understand its implications if we are to direct its huge potential to the good of humanity and the planet.

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This book is a collection of articles, written by both academics and practitioners as an evidence base for citizen engagement through information and communication technologies (ICTs). In it, the authors ask: how do ICTs empower through participation, transparency and accountability? Specifically, the authors examine two principal questions: Are technologies an accelerator to closing the “accountability gap” – the space between the supply (governments, service providers) and demand (citizens, communities, civil society organizations or CSOs) that requires bridging for open and collaborative governance? And under what conditions does this occur? The introductory chapters lay the theoretical groundwork for understanding the potential of technologies to achieving intended goals. Chapter 1 takes us through the theoretical linkages between empowerment, participation, transparency and accountability. In Chapter 2, the authors devise an informational capability framework, relating human abilities and well-being to the use of ICTs. The chapters to follow highlight practical examples that operationalize ICT-led initiatives. Chapter 3 reviews a sample of projects targeting the goals of transparency and accountability in governance to make preliminary conclusions around what evidence exists to date, and where to go from here. In chapter 4, the author reviews the process of interactive community mapping (ICM) with examples that support general local development and others that mitigate natural disasters. Chapter 5 examines crowdsourcing in fragile states to track aid flows, report on incitement or organize grassroots movements. In chapter 6, the author reviews Check My School (CMS), a community monitoring project in the Philippines designed to track the provision of services in public schools. Chapter 7 introduces four key ICT-led, citizen-governance initiatives in primary health care in Karnataka, India. Chapter 8 analyzes the World Bank Institute’s use of ICTs in expanding citizen project input to understand the extent to which technologies can either engender a new “feedback loop” or ameliorate a “broken loop”. The authors’ analysis of the evidence signals ICTs as an accelerator to closing the “accountability gap”. In Chapter 9, the authors conclude with the Loch Ness model to illustrate how technologies contribute to shrinking the gap, why the gap remains open in many cases, and what can be done to help close it. This collection is a critical addition to existing literature on ICTs and citizen engagement for two main reasons: first, it is expansive, covering initiatives that leverage a wide range of technology tools, from mobile phone reporting to crowdsourcing to interactive mapping; second, it is the first of its kind to offer concrete recommendations on how to close feedback loops. This Handbook is a comprehensive reference book for libraries, scholars, and comparative and international studies researchers. It contains 33 chapters on all major educational topics, including research using all qualitative and quantitative methodologies, with research from 23 countries and all inhabited continents. Here you as a scholar will find research from countries not usually known for published educational schooling topics. The globalization of educational research has not typically kept pace with the globalization of economies or communication technologies. This Handbook includes expanded research capabilities from both developed and less developed countries throughout the world.