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Physical Science

Questions and Answers

Passbooks The DSST Subject Standardized Tests are comprehensive college and graduate level examinations given by the Armed Forces, colleges and graduate schools. These exams enable students to earn college credit for what they have learned through self-study, on the job, or by other non-traditional means. The DSST Physical Science Passbook® prepares candidates for the DSST exam, which enables schools to award credit for knowledge acquired outside the normal classroom environment. It provides a series of informational texts as well as hundreds of questions and answers in the areas that will likely be covered on your upcoming exam, including but not limited to: physics; electricity and magnetism; matter; chemical reactions; atomic structure; and more.

Physical Sciences, Grade 12

Study & Master Physical Sciences Grade 12 has been especially developed by an experienced author team for the Curriculum and Assessment Policy Statement (CAPS). This new and easy-to-use course helps learners to master essential content and skills in Physical Sciences.

Advances in Electric Power and Energy

Static State Estimation

John Wiley & Sons A guide to the role of static state estimation in the mitigation of potential system failures With contributions from a noted panel of experts on the topic, *Advances in Electric Power and Energy: Static State Estimation* addresses the wide-range of issues concerning static state estimation as a main energy control function and major tool for evaluating prevailing operating conditions in electric power systems worldwide. This book is an essential guide for system operators who must be fully aware of potential threats to the integrity of their own and neighboring systems. The contributors provide an overview of the topic and review common threats such as cascading black-outs to model-based anomaly detection to the operation of micro-grids and much more. The book also includes a discussion of an effective mathematical programming approach to state estimation in power systems. *Advances in Electric Power and Energy* reviews the most recent developments in the field and: Offers an introduction to the topic to help non-experts (and professionals) get up-to-date on static state estimation Covers the essential information needed to understand power system state estimation written by experts on the subject Discusses a mathematical programming approach Written for electric power system planners, operators, consultants, power system software developers, and academics, *Advances in Electric Power and Energy* is the authoritative guide to the topic with contributions from experts who review the most recent developments.

Space and planning in secondary cities

Reflections from South Africa

UJ Press Much of the urban research focuses on the large metropolitan areas in South Africa. This book assesses spatial planning in the second-tier cities of the country. Secondary cities are vital as they perform essential regional, and in some cases, global economic roles and help to distribute the population of a country more evenly across its surface. Apartheid planning left South African cities fragmented segregated and with low densities. Post-apartheid policies aim to reverse these realities by emphasising integration, higher densities and upgrading. Achieving these aims has been challenging and often the historical patterns continue. The evidence shows that two opposing patterns prevail, namely increased densities and continued urban sprawl. This book presents ten case studies of spatial planning and spatial transformation in secondary cities of South Africa. The book frames these case studies against complexity theory and suggests that the post-apartheid response to apartheid planning represents a linear deviation from history. The ten case studies then reveal how difficult it is for local decision-makers to find appropriate responses and how current responses often result in contradictory results. Often these cities are highly vulnerable and they find it difficult to plan in the context of uncertainty. The book also highlights how these cities find it difficult to stand on their own against the influence of interest groups (property developers, mining companies, traditional authorities, other spheres of government). The main reasons include weak municipal finance statements, the dependence on national and provincial government for capital expenditure, limited investment in infrastructure maintenance, the lack of planning capacity, the inability to implement plans and the unintended and sometimes contrary outcomes of post-apartheid planning policies.

Routledge Handbook of Landscape and Food

Routledge Since the turn of the millennium, there has been a burgeoning interest in, and literature of, both landscape studies and food studies. Landscape describes places as relationships and processes. Landscapes create people's identities and guide their actions and their preferences, while at the same time are shaped by the actions and forces of people. Food, as currency, medium, and sustenance, is a fundamental part of those landscape relationships. This volume brings together over fifty contributors from around the world in forty profoundly interdisciplinary chapters. Chapter authors represent an astonishing range of disciplines, from agronomy, anthropology, archaeology, conservation, countryside management, cultural studies, ecology, ethics, geography, heritage studies, landscape architecture, landscape management and planning, literature, urban design and architecture. Both food studies and landscape studies defy comprehension from the perspective of a single discipline, and thus such a range is both necessary and enriching. The *Routledge Handbook of Landscape and Food* is intended as a first port of call for scholars and researchers seeking to undertake new work at the many intersections of landscape and food. Each chapter provides an authoritative overview, a broad range of pertinent readings and references, and seeks to identify areas where new research is needed—though these may also be identified in the many fertile areas in which subjects and chapters overlap within the book.

The Fourth Industrial Revolution

Currency World-renowned economist Klaus Schwab, Founder and Executive Chairman of the World Economic Forum, explains that we have an opportunity to shape the fourth industrial revolution, which will fundamentally alter how we live and work. Schwab argues that this revolution is different in scale, scope and complexity from any that have come before. Characterized by a range of new technologies that are fusing the physical, digital and biological worlds, the developments are affecting all disciplines, economies, industries and governments, and even challenging ideas about what it means to be human. Artificial intelligence is already all around us, from supercomputers, drones and virtual assistants to 3D printing, DNA sequencing, smart thermostats, wearable sensors and microchips smaller than a grain of sand. But this is just the beginning: nanomaterials 200 times stronger than steel and a million times thinner than a strand of hair and the first transplant of a 3D printed liver are already in development. Imagine "smart factories" in which global systems of manufacturing are coordinated virtually, or implantable mobile phones made of biosynthetic materials. The fourth industrial revolution, says Schwab, is more significant, and its ramifications more profound, than in any prior period of human history. He outlines the key technologies driving this revolution and discusses the major impacts expected on government, business, civil society and individuals. Schwab also offers bold ideas on how to harness these changes and shape a better future—one in which technology empowers people rather than replaces them; progress serves society rather than disrupts it; and in which innovators respect moral and ethical boundaries rather than cross them. We all have the opportunity to contribute to developing new frameworks that advance progress.

Studies in Natural Products Chemistry

Elsevier Natural products play an integral and ongoing role in promoting numerous aspects of scientific advancement, and many aspects of basic research programs are intimately related to natural products. With articles written by leading authorities in their respective fields of research, *Studies in Natural Products Chemistry, Volume 37* presents current frontiers and future guidelines for research based on important discoveries made in the field of bioactive natural products. It is a valuable source for researchers and engineers working in natural products and medicinal chemistry. Describes the chemistry of bioactive natural products Contains contributions by leading authorities in the field A valuable source for researchers and engineers working in natural product and medicinal chemistry

Scientific and Technical Aerospace Reports

Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

Climate Justice in a Non-Ideal World

Oxford University Press Climate change is a pressing international political issue, for which a practical but principled solution is urgently required. *Climate Justice in a Non-Ideal World* aims to make normative theorising on climate justice more relevant and applicable to political realities and public policy. The motivation behind this edited collection is that normative theorising has something to offer even in an imperfect world mired by partial compliance and unfavourable circumstances. In the last years, a lively debate has sprung up in political philosophy about non-ideal theory and there has also been an upsurge of interest in the various normative issues raised by climate change such as intergenerational justice, transnational harm, collective action, or risk assessment. However, there has been little systematic discussion of the links between climate justice and non-ideal theory even though the former would seem like a paradigm example of the relevance of the latter. The aim of this edited volume is to address this. In doing so, the volume presents original work from leading experts on climate ethics, including several who have participated in climate policy. The first part of the book discusses those facets of the debate on climate justice that become relevant due to the shortcomings of current global action on climate change. The second part makes specific suggestions for adjusting current policies and negotiating procedures in ways that are feasible in the relatively short term while still decreasing the distance between current climate policy and the ideal. The chapters in the third and final part reflect upon how philosophical work can be brought to bear on the debates in climate science, communication, and politics.

Scientific Inquiry and Nature of Science

Implications for Teaching, Learning, and Teacher Education

Springer Science & Business Media This book synthesizes current literature and research on scientific inquiry and the nature of science in K-12 instruction. Its presentation of the distinctions and overlaps of inquiry and nature of science as instructional outcomes are unique in contemporary literature. Researchers and teachers will find the text interesting as it carefully explores the subtleties and challenges of designing curriculum and instruction for integrating inquiry and nature of science.

Climate Change 2014

Synthesis Report

Museum Times

Changing Histories in South Africa

Berghahn Books Museums flourished in post-apartheid South Africa. In older museums, there were renovations on the go, and at least fifty new museums opened. Most sought to depict violence and suffering under apartheid and the growth of resistance. These unlikely journeys are tracked as museums became a primary setting for contesting histories. From the renowned Robben Island Museum to the almost unknown Lwandle Migrant Labour Museum, the author demonstrates how an institution concerned with the conservation of the past is simultaneously a site for changing history.

Safe Management of Wastes from Health-care Activities

World Health Organization

Yearbook of International Organizations 2014-2015

International Organization Bibliography and Resources

Yearbook of International Orga Providing both an international organizations and research bibliography, Volume 4 cites over 46,000 publications and information resources supplied by international organizations, and provides nearly 18,000 research citations under 40 subject headings. This volume also includes a research bibliography on international organizations and transnational associations.

Nuclear Energy

An Introduction to the Concepts, Systems, and Applications of Nuclear Processes

Elsevier This expanded, revised, and updated fourth edition of *Nuclear Energy* maintains the tradition of providing clear and comprehensive coverage of all aspects of the subject, with emphasis on the explanation of trends and developments. As in earlier editions, the book is divided into three parts that achieve a natural flow of ideas: Basic Concepts, including the fundamentals of energy, particle interactions, fission, and fusion; Nuclear Systems, including accelerators, isotope separators, detectors, and nuclear reactors; and Nuclear Energy and Man, covering the many applications of radionuclides, radiation, and reactors, along with a discussion of wastes and weapons. A minimum of mathematical background is required, but there is ample opportunity to learn characteristic numbers through the illustrative calculations and the exercises. An updated Solution Manual is available to the instructor. A new feature to aid the student is a set of some 50 Computer Exercises, using a diskette of personal computer programs in BASIC and spreadsheet, supplied by the author at a nominal cost. The book is of principal value as an introduction to nuclear science and technology for early college students, but can be of benefit to science teachers and lecturers, nuclear utility trainees and engineers in other fields.

Study and Master Life Sciences Grade 11 CAPS Study Guide

Drought risk management: a strategic approach

UNESCO Publishing

Global Burden of Disease and Risk Factors

World Bank Publications Strategic health planning, the cornerstone of initiatives designed to achieve health improvement goals around the world, requires an understanding of the comparative burden of diseases and injuries, their corresponding risk factors and the likely effects of intervention options. The Global Burden of Disease framework, originally published in 1990, has been widely adopted as the preferred method for health accounting and has become the standard to guide the setting of health research priorities. This publication sets out an updated assessment of the situation, with an analysis of trends observed since 1990 and a chapter on the sensitivity of GBD estimates to various sources of uncertainty in methods and data.

The impact of disasters and crises on agriculture and food security: 2021

Food & Agriculture Org. On top of a decade of exacerbated disaster loss, exceptional global heat, retreating ice and rising sea levels, humanity and our food security face a range of new and unprecedented hazards, such as megafires, extreme weather events, desert locust swarms of magnitudes previously unseen, and the COVID-19 pandemic. Agriculture underpins the livelihoods of over 2.5 billion people - most of them in low-income developing countries - and remains a key driver of development. At no other point in history has agriculture been faced with such an array of familiar and unfamiliar risks, interacting in a hyperconnected world and a precipitously changing landscape. And agriculture continues to absorb a disproportionate share of the damage and loss wrought by disasters. Their growing frequency and intensity, along with the systemic nature of risk, are upending people's lives, devastating livelihoods, and jeopardizing our entire food system. This report makes a powerful case for investing in resilience and disaster risk reduction - especially data gathering and analysis for evidence informed action - to ensure agriculture's crucial role in achieving the future we want.

Tourism and Hospitality Studies

Peter Lang D This book discusses "tourism and hospitality" from different perspectives and disciplines. In addition, this book, considering the tourism and hotel management terminology, is expected to be a source book for the theoretical and practical scientific studies in the fields which is in close relationship such as gastronomy, recreation and marketing.

World Social Report 2020

Inequality in a Rapidly Changing World

United Nations This report examines the links between inequality and other major global trends (or megatrends), with a focus on technological change, climate change, urbanization and international migration. The analysis pays particular attention to poverty and labour market trends, as they mediate the distributional impacts of the major trends selected. It also provides policy recommendations to manage these megatrends in an equitable manner and considers the policy implications, so as to reduce inequalities and support their implementation.

Number Patterns 1

The Social Determinants of Mental Health

American Psychiatric Pub The Social Determinants of Mental Health aims to fill the gap that exists in the psychiatric, scholarly, and policy-related literature on the social determinants of mental health: those factors stemming from where we learn, play, live, work, and age that impact our overall mental health and well-being. The editors and an impressive roster of chapter authors from diverse scholarly backgrounds provide detailed information on topics such as discrimination and social exclusion; adverse early life experiences; poor education; unemployment, underemployment, and job insecurity; income inequality, poverty, and neighborhood deprivation; food insecurity; poor housing quality and housing instability; adverse features of the built environment; and poor access to mental health care. This thought-provoking book offers many beneficial features for clinicians and public health professionals: Clinical vignettes are included, designed to make the content accessible to readers who are primarily clinicians and also to demonstrate the practical, individual-level applicability of the subject matter for those who typically work at the public health, population, and/or policy level. Policy implications are discussed throughout, designed to make the content accessible to readers who work primarily at the public health or population level and also to demonstrate the policy relevance of the subject matter for those who typically work at the clinical level. All chapters include five to six key points that focus on the most important content, helping to both prepare the reader with a brief overview of the chapter's main points and reinforce the "take-away" messages afterward. In addition to the main body of the book, which focuses on selected individual social determinants of mental health, the volume includes an in-depth overview that summarizes the editors' and their colleagues' conceptualization, as well as a final chapter coauthored by Dr. David Satcher, 16th Surgeon General of the United States, that serves as a "Call to Action," offering specific actions that can be taken by both clinicians and policymakers to address the social determinants of mental health. The editors have succeeded in the difficult task of balancing the individual/clinical/patient perspective and the population/public health/community point of view, while underscoring the need for both groups to work in a unified way to address the inequities in twenty-first century America. The Social Determinants of Mental Health gives readers the tools to understand and act to improve mental health and reduce risk for mental illnesses for individuals and communities. Students preparing for the Medical College Admission Test (MCAT) will also benefit from this book, as the MCAT in 2015 will test applicants' knowledge of social determinants of health. The social determinants of mental health are not distinct from the social determinants of physical health, although they deserve special emphasis given the prevalence and burden of poor mental health.

Trouble in the Forest

California's Redwood Timber Wars

U of Minnesota Press Wars over natural resources have been fiercely fought in the Humboldt Bay redwood region of Northern California, a situation made devastatingly urgent in recent decades of timber war that raised questions of economic sustainability and ecological preservation. In *Trouble in the Forest*, Richard Widick narrates the long and bloody history of this hostility and demonstrates how it exemplifies the key contemporary challenge facing the modern societies—the collision of capitalism, ecology, and social justice. An innovative blend of social history, cultural theory, and ethnography, *Trouble in the Forest* traces the origins of the redwood conflict to the same engines of modernity that drove the region's colonial violence against American Indians and its labor struggles during the industrial revolution. Widick describes in vivid detail the infamous fight that ensued when Maxxam Inc. started clearing ancient forests in Humboldt after acquiring the Pacific Lumber Company in 1985, but he also reaches further back and investigates the local Indian clashes and labor troubles that set the conditions of the timber wars. Seizing on public flash points of each confrontation—including the massacre of Wiyot on Indian Island in 1860, the machine-gunning of redwood strikers by police and company thugs during the great lumber strike of 1935, and the car bombing of forest defenders in 1990—Widick maps how the landscape has registered the impact of this epochal struggle, and how the timber wars embody the forces of market capitalism, free speech, and liberal government. Showing how events such as an Indian massacre and the death of a protester at the hands of a logger create the social memory and culture of timber production and environmental resistance now emblematic of Northern California's redwood region, *Trouble in the Forest* ultimately argues that the modern social imaginary produced a perpetual conflict over property that fueled the timber wars as it pushed toward the western frontier: first property in land, then in labor, and now in environment.

World Meetings Outside United States and Canada

Review of Maritime Transport 2020

This series contains the decisions of the Court in both the English and French texts.

Consolidated guidelines on HIV prevention, testing, treatment, service delivery and monitoring

recommendations for a public health approach

World Health Organization These consolidated guidelines on HIV prevention, testing, treatment, service delivery and monitoring bring together existing and new clinical and programmatic recommendations across different ages, populations and settings, bringing together all relevant WHO guidance on HIV produced since 2016. It serves as an update to the previous edition of the consolidated guidelines on HIV. These guidelines continue to be structured along the continuum of HIV care. Information on new combination prevention approaches, HIV testing, ARV regimens and treatment monitoring are included. There is a new chapter on advanced HIV disease that integrates updated guidance on the management of important HIV comorbidities, including cryptococcal disease, histoplasmosis and tuberculosis. The chapter on general HIV care, contains a new section on palliative care and pain management, and up to date information on treatment of several neglected tropical diseases, such as visceral leishmaniasis and Buruli ulcer. New recommendations for screening and treating of cervical pre-cancer lesions in women living with HIV are also addressed in this chapter. Guidance on service delivery was expanded to help the implementation and strengthening the HIV care cascade. Importantly, this guidance emphasizes the need for differentiated approaches to care for people who are established on ART, such as reduced frequency of clinic visits, use of multi-month drug dispensing and implementation of community ART distribution. The adoption of these efficiencies is essential to improve the quality of care of people receiving treatment and reduce the burden on health facilities, particularly in resource limited settings.

Climate Change 2007 - Impacts, Adaptation and Vulnerability

Working Group II Contribution to the Fourth Assessment Report of the IPCC

Cambridge University Press IPCC Fourth Assessment Report on climate change impacts, adaptation and vulnerability for researchers, students, policymakers.

Drugs, Brains, and Behavior

The Science of Addiction

"Drugs, Brains, and Behavior" is an online textbook written by C. Robin Timmons and Leonard W. Hamilton. The book was previously published by Prentice Hall, Inc. in 1990 as "Principles of Behavioral Pharmacology." The authors attempt to develop an understanding of the interpenetration of brain, behavior and environment. They discuss the chemistry of behavior in both the literal sense of neurochemistry and the figurative sense of an analysis of the reactions with the environment.

Study and Master Mathematical Literacy Grade 12 CAPS Learner's Book

Study and Master Mathematics Grade 12 CAPS Study Guide

Study and Master Physical Science Grade 11 `Teacher's Guide

Study & Master Physical Sciences Grade 11 takes a fresh and innovative look at the world around us and links science to our everyday lives. All case studies and information on specialised fields, companies and institutions were personally researched by the author and verified by experts in those fields, companies and institutions.

Economic and Management Sciences, Grade 8

Study & master economic and management sciences grade 8 has been especially developed by an experienced author team for the Curriculum and Assessment Policy Statement (CAPS). This new and easy-to-use course helps learners to master essential content and skills in economic and management sciences.

Physics

Principles with Applications

Addison-Wesley Longman

Advantage Physics

Markham, Ont. : Fitzhenry & Whiteside Students who have mastered calculus, physics, physics, chemistry and algebra all talk of that breakthrough moment when what had seemed impenetrable was replaced with understanding, when suddenly what they had perceived as enormously difficult became incredibly clear. The straightforward instructions in each of these valuable companions are designed to augment in-class learning. The tutorials and solved problems are there to clarify difficult concepts giving students the Advantage they need to achieve full understanding.

Global Study on Homicide 2013

Trends, Contexts, Data

UN The Global Study on Homicide 2013 is based on comprehensive data from more than 200 countries/territories, and examines and analyses patterns and trends in homicide at the global, regional, national and sub-national levels. Such analysis is fundamental to understanding the various factors and dynamics that drive homicide, so that measures can be developed to reduce violent crime. The Study provides a typology of homicide, including homicide related to crime, coexistence-related homicide, and socio-political homicide. The nature of crime in several countries emerging from conflict, the role of various mechanisms in killing, and the response of the criminal justice system to homicide are also analyzed. A further chapter examines homicide at the sub-national level, and includes analysis at the city-level for selected global cities.

African Ethics

An Anthology of Comparative and Applied Ethics

University of Natal Press This is the first comprehensive volume on African ethics, centered on Ubuntu and its relevance today. Important contemporary issues are explored, such as African bioethics, business ethics, traditional African attitudes to the environment, and the possible development of a new form of democracy based on indigenous African political systems. In a world that has become interconnected, this anthology demonstrates that African ethics can make valuable contributions to global ethics. It is not only African academics, students, organizations, or those individuals committed to ethics that are envisaged as the beneficiaries of this book, but all humankind. A number of topics presented here were inspired by a Shona proverb that says, Ndarira imwe hairiri (One brass wire cannot produce a sound). The chorus of voices in African Ethics demonstrates this proverbial truism.

Contemporary Management Principles

Meaning Making In Secondary Science Classroomsaa

McGraw-Hill Education (UK) This book focuses on the talk of science classrooms and in particular on the ways in which the different kinds of interactions between teachers and students contribute to meaning making and learning. Central to the text is a new analytical framework for characterising the key features of the talk of school science classrooms. This framework is based on sociocultural principles and links the work of theorists such as Vygotsky and Bakhtin to the day-to-day interactions of contemporary science classrooms.

Curriculum Theory, Curriculum Theorising, and the Theoriser

The African Theorising Perspective

BRILL This book explores the complexities of curriculum studies by taking into account African perspectives of curriculum theory, curriculum theorising and the theoriser. It provides alternative pathways to the curriculum discourse in Africa by breaking traditions and experimenting on alternative approaches.