

## Past Year Question Spm2013 Science Paper

STPM Mathematics (M) Paper 1 Past Year Question from Year 2013 and Year 2019 plus STPM 2020 Intensive Solution

In this volume experts from university and industry are presenting new technologies for solving industrial problems as well as important and practicable impulses for new research. The following topics are treated: - solid modelling - geometry processing - feature modelling - product modelling - surfaces over arbitrary topologies - blending methods - scattered data algorithms - smooting and fairing algorithms - NURBS 21 articles are giving a state-of-the-art survey of the relevant problems and issues in the rapidly growing area of geometric modelling.

The central question addressed in Foundations for the Future in Mathematics Education is this: What kind of understandings and abilities should be emphasized to decrease mismatches between the narrow band of mathematical understandings and abilities that are emphasized in mathematics classrooms and tests, and those that are needed for success beyond school in the 21st century? This is an urgent question. In fields ranging from aeronautical engineering to agriculture, and from biotechnologies to business administration, outside advisors to future-oriented university programs increasingly emphasize the fact that, beyond school, the nature of problem-solving activities has changed dramatically during the past twenty years, as powerful tools for computation, conceptualization, and communication have led to fundamental changes in the levels and types of mathematical understandings and abilities that are needed for success in such fields. For K-12 students and teachers, questions about the changing nature of mathematics (and mathematical thinking beyond school) might be rephrased to ask: If the goal is to create a mathematics curriculum that will be adequate to prepare students for informed citizenship—as well as preparing them for career opportunities in learning organizations, in knowledge economies, in an age of increasing globalization—how should traditional conceptions of the 3Rs be extended or reconceived? Overall, this book suggests that it is not enough to simply make incremental changes in the existing curriculum whose traditions developed out of the needs of industrial societies. The authors, beyond simply stating conclusions from their research, use results from it to describe promising directions for a research agenda related to this question. The volume is organized in three sections: \*Part I focuses on naturalistic observations aimed at clarifying what kind of “mathematical thinking” people really do when they are engaged in “real life” problem solving or decision making situations beyond school. \*Part II shifts attention toward changes that have occurred in kinds of elementary-but-powerful mathematical concepts, topics, and tools that have evolved recently—and that could replace past notions of “basics” by providing new foundations for the future. This section also initiates discussions about what it means to “understand” the preceding ideas and abilities. \*Part III extends these discussions about meaning and understanding—and emphasizes teaching experiments aimed at investigating how instructional activities can be designed to facilitate the development of the preceding ideas and abilities. Foundations for the Future in Mathematics Education is an essential reference for researchers, curriculum developers, assessment experts, and teacher educators across the fields of mathematics and science education.

Microfinance India: State of the Sector Report is an annual publication which quantifies the growth and performance of Indian microfinance in addition to documenting recent developments, analyzing critical issues, and identifying policy choices with the overall objective of deepening the understanding of the sector. Besides making available the latest statistical data on growth, performance and expansion across regions and population segments, the document provides a thorough review of the operational climate and the recent innovations in the realms of products, services and processes. This year's State of the Sector Report is structured in line with the critical themes of current microfinance discourse. The report locates itself within the financial inclusion debate, as that is the overarching philosophical foundation of microfinance. Specifically, the report attempts to (a) unravel the major patterns of change within three major legal-organizational forms—self-help groups, for-profit microfinance companies and non-profit microfinance organizations; (b) explain the relationship among the major channels of microfinance, and between them and the other system players (banks, investors, government, central bank); and (c) review the main facets of the recent policy and regulatory changes that have a bearing on financial inclusion in general and microfinance in particular. This report is a valued reference document for researchers, practitioners and policy makers in the microfinance sector.

This book examines how business, the social sciences, science and technology will impact the future of ASEAN. Following the ASEAN VISION 2020, it analyses the issues faced by ASEAN countries, which are diverse, while also positioning ASEAN as a competitive entity through partnerships. On the 30th anniversary of ASEAN, all ASEAN leaders agreed to the establishment of the ASEAN VISION 2020, which delineates the formation of a peaceful, stable and dynamically developed region while maintaining a community of caring societies in Malaysia, Indonesia, Singapore, Brunei, Vietnam, Thailand, the Philippines, Myanmar, Laos and Cambodia. In keeping with this aspiration, Universiti Teknologi MARA (UitM) Perlis took the initial steps to organise conferences and activities that highlight the role of the ASEAN region. The Second International Conference on the Future of ASEAN (ICoFA) 2017 was organised by the Office of Academic Affairs, Universiti Teknologi MARA Perlis, to promote more comprehensive integration among ASEAN members. This book, divided into two volumes, offers a useful guide for all those engaged in research on business, the social sciences, science and technology. It will also benefit researchers worldwide who want to gain more knowledge about ASEAN countries.

Climate Change 2013: The Physical Science Basis Working Group I Contribution to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change Cambridge University Press

Infinity is a profoundly counter-intuitive and brain-twisting subject that has inspired some great thinkers – and provoked and shocked others. The ancient Greeks were so horrified by the implications of an endless number that they drowned the man who gave away the secret. And a German mathematician was driven mad by the repercussions of his discovery of transfinite numbers. Brian Clegg and Oliver Pugh's brilliant graphic tour of infinity features a cast of characters ranging from Archimedes and Pythagoras to al-Khwarizmi, Fibonacci, Galileo, Newton, Leibniz, Cantor, Venn, Gödel and Mandelbrot, and shows how infinity has challenged the finest minds of science and mathematics. Prepare to enter a world of paradox.

This book shows how psychological aspects of individuals and of couple relationships can work as both protective or risk factors to the health of diabetes patients and their partners. Departing from a social psychologic perspective, it analyzes how individual attributes and personal relationships influence health, focusing on the impacts that diabetes as a chronic-degenerative disease has on the psychological state of the patient and on their most immediate social context. The volume is divided in three parts: the first focuses on the patient, the second on the partner and the third on the couple relationship. The first part examines how attachment styles, optimism, resilience, self-efficacy in emotional regulation, loneliness and rumination impact the stress experienced by the diabetic patient. The second part analyzes how the partner's altruism, affectivity, jealousy, criticism or indifference affects the physical health of the diabetic patient. Finally, the third part explores the relationship between negative emotions and the couple's motives of conflict, as well as the effects of the communication styles used, emotional warmth and empathy in the satisfaction with the relationship in couples where one of the members is a diabetes patient. Diabetes and Couple Relationship: Protective and Risk Factors will be a valuable resource for researchers, students and professionals in the fields of health and clinical psychology, social psychology and public health interested in better understanding how personal characteristics and relationships can affect the physical and psychological health of chronic disease patients, as well as their well-being and quality of life.

This fifth volume of PISA 2012 results presents an assessment of student performance in problem solving, which measures students' capacity to respond to non-routine situations in order to achieve their potential as constructive and reflective citizens.

The study of thermoregulation in endotherms has contributed much to the emergence of the concept of control theory in biology. By the same token, the study of temperature adjustment in ectotherms is likely to have a far-reaching influence on ideas on the regulation of metabolism in general. The reason for this is that ectotherms, in adapting to the vagaries of a thermally unstable environment, deploy a range of subtle molecular and organismic strategies. Thus the experimenter, using temperature changes as a tool, is well equipped to analyze some of these strategies. This approach has enabled some important mechanisms of temperature-induced adaptation to be elucidated; the most striking of these are the effects on metabolism of changes in the conformation of enzymes and the transfer properties of membranes.

Furthermore, there is a vague but persistent feeling among those working in this field that changes in the nervous system will ultimately prove to be the agency by which many of the molecular mechanisms of temperature adaptation are controlled. Should this indeed be the case, a new phase would soon begin in our understanding of the interactions between the systemic and the cellular levels of organization. However, it is not only questions about the causes of temperature adaptation that can provide answers of potential importance to the general biologist; of equal significance are questions as to the meaning of temperature adaptation in a particular organism.

Sewage Treatment Plants: Economic Evaluation of Innovative Technologies for Energy Efficiency aims to show how cost saving can be achieved in sewage treatment plants through implementation of novel, energy efficient technologies or modification of the conventional, energy demanding treatment facilities towards the concept of energy streamlining. The book brings together knowledge from Engineering, Economics, Utility Management and Practice and helps to provide a better understanding of the real economic value with methodologies and practices about innovative energy technologies and policies in sewage treatment plants.

Paulo Freire is one of the most influential thinkers in education. This text is a thoughtful and thorough introduction to Freire's work, situating this in the context of his life, intellectual journey and the reception of his thinking around the world. Daniel Schugurensky's text offers a coherent and accessible account of Freire's educational thought, looking at its contribution to educational theory and practice and exploring the legacy of Freire for contemporary education and the relevance of his thought for today's students.

This book fills a gap in the market by providing energising warm-up activities for community, church and youth choirs. Whereas many publications exist that offer singing and vocal exercises, there are virtually none available offering physical warm-ups, breathing exercises and exercises for articulation. These form an essential starting point for any rehearsal to develop vital skills for healthy voice production. Collected and tried out over 25 years of teaching and conducting practice, this book offers a treasure trove of enjoyable and entertaining warm-ups that will leave your choir alert, wide awake and ready to work with focus and concentration.

In the ruthless arena of King Henry VIII's court, only one man dares to gamble his life to win the king's favor and ascend to the heights of political power England in the 1520s is a heartbeat from disaster. If the king dies without a male heir, the country could be destroyed by civil war. Henry VIII wants to annul his marriage of twenty years, and marry Anne Boleyn. The pope and most of Europe opposes him. The quest for the king's freedom destroys his adviser, the brilliant Cardinal Wolsey, and leaves a power vacuum. Into this impasse steps Thomas Cromwell. Cromwell is a wholly original man, a charmer and a bully, both idealist and opportunist, astute in reading people and a demon of energy: he is also a consummate politician, hardened by his personal losses, implacable in his ambition. But Henry is volatile: one day tender, one day murderous. Cromwell helps him break the opposition, but what will be the price of his triumph? In inimitable style, Hilary Mantel presents a picture of a half-made society on the cusp of change, where individuals fight or embrace their fate with passion and courage. With a vast array of characters, overflowing with incident, the novel recreates an era when the personal and political are separated by a hairbreadth, where success brings unlimited power but a single failure means death.

A very challenging subject IB chemistry requires tremendous effort to understand fully and attain a high grade. 'IB Chemistry Revision Guide' simplifies the content and provides clear explanations for the material.

The colony world of Stittara is no ordinary planet. For the interstellar Unity of the Ceylesian Arm, Stittara is the primary source of anagathics: drugs that have more than doubled the human life span. But the ecological balance that makes anagathics possible on Stittara is fragile, and the Unity government has a vital interest in making sure the flow of longevity drugs remains uninterrupted, even if it means uprooting the human settlements. Offered the job of assessing the ecological impact of the human presence on Stittara, freelance consultant Dr. Paulo Verano jumps at the chance to escape the ruin of his personal life. He gets far more than he bargained for: Stittara's atmosphere is populated with skytubes—gigantic, mysterious airborne organisms that drift like clouds above the surface of the planet. Their exact nature has eluded humanity for centuries, but Verano believes his conclusions about Stittara may hinge on understanding the skytubes' role in the planet's ecology—if he survives the hurricane winds, distrustful settlers, and secret agendas that impede his investigation at every turn. *The One-Eyed Man* is a thrilling new far-future science fiction novel from New York Times bestseller L. E. Modesitt, Jr. Other Series by L.E. Modesitt, Jr. *The Saga of Recluce* *The Imager Portfolio* *The Korean Chronicles* *The Spell Song Cycle* *The Ghost Books* *The Ecolitan Matter* *The Forever Hero* *Timegod's World* Other Books *The Green Progression* *Hammer of Darkness* *The Parafaith War* *Adiamante* *Gravity Dreams* *The Octagonal Raven* *Archform: Beauty* *The Ethos Effect* *Flash* *The Eternity Artifact* *The Elysium Commission* *Viewpoints* *Critical Haze* *Empress of Eternity* *The One-Eyed Man* *Solar Express* At the Publisher's request, this title is being sold without Digital Rights Management Software (DRM) applied.

From Thomas Jefferson to John Rawls, justice has been at the center of America's self-image and national creed. At the same time, for many of its peoples—from African slaves and European immigrants to women and the poor—the American experience has been defined by injustice: oppression, disenfranchisement, violence, and prejudice. In *Identity and the Failure of America*, John Michael explores the contradictions between a mythic national identity promising justice to all and the realities of a divided, hierarchical, and frequently iniquitous history and social order. Through a series of insightful readings, Michael analyzes such cultural moments as the epic dramatization of the tension between individual ambition and communal complicity in *Moby-Dick*, "attempts to effect social change through sympathy in the novels of Lydia Marie Child and Harriet Beecher Stowe, Ralph Waldo Emerson's antislavery activism and Frederick Douglass's long fight for racial equity, and the divisive figures of John Brown and Nat Turner in American letters and memory. Focusing on exemplary instances when the nature of the United States as an essentially conflicted nation turned to force, Michael ultimately posits the development of a more cosmopolitan American identity, one that is more fully and justly imagined in response to the nation's ethical failings at home and abroad. John Michael is professor of English and of visual and cultural studies at the University of Rochester. He is the author of *Anxious Intellectuals: Academic Professionals, Public Intellectuals, and Enlightenment Values* and *Emerson and Skepticism: The Cipher of the World*."

This book gathers selected papers presented at the 7th International Conference on Innovations in Electronics and Communication Engineering, held at Guru Nanak Institutions in Hyderabad, India. It highlights contributions by researchers, technocrats and experts regarding the latest technologies in electronic and communication engineering, and addresses various aspects of communication engineering, including signal processing, VLSI design, embedded systems, wireless communications, and electronics and communications in general. Covering cutting-edge technologies, the book offers a valuable resource, especially for young researchers.

*Chemistry: Inorganic Qualitative Analysis in the Laboratory* is a textbook dealing with qualitative analysis in the laboratory, as well as with the process of anion and cation analysis. The book presents an overview of the subject of inorganic qualitative analysis, including as the equipment, reagents, and procedures that are going to be used in the laboratory. Preliminary experiments include the classification of precipitates, handling precipitates, separation techniques, flame tests, Brown ring test, solvent extraction. The text also describes in detail how to prepare the experiment for anion and cation analysis such as testing for water solubility in a solid sample or the sodium carbonate treatment of a water-soluble sample. The book also explains the qualitative analysis for anions in preliminary and specific tests. In the qualitative analysis for cations, the student follows different procedures for Cation Groups I, II, III, IV or V. For example, the ions of Cation Group V cannot be precipitated by any Cation Groups I-IV reagents, nor by any single group reagent. The textbook is suitable for both chemistry teachers and freshmen students.

The Fifth Assessment Report of the IPCC is the standard scientific reference on climate change for students, researchers and policy makers.

This concise volume seeks to address the silent void that university students embarking on mathematical coursework inevitably face: How does one apply ideas, concepts, and theory to story problems that at first seem intractable? We pay equal attention to the abstract aspects of problem solving as well as the practical. We discuss common misperceptions of ability and pay close attention to the attitudes and habits employed by successful problem solvers. We reveal problem solving as both achievable and fun, and illustrate these themes with specific examples and stories throughout the text. We also enumerate simple, executable steps that can be implemented when faced with virtually any new problem: understand the problem; draw a picture; define variables; be consistent; utilize principles. Far from trivial, these steps often lead novice problem solvers to error. In sum, we hope you find this charming work to be an indispensable guide on your journey and an effective means to improving and maturing your problem-solving capabilities.

This legendary tournament features 210 hotly contested games, many of them masterpieces of the first rank. The first authoritative English translation from the Russian, this volume was written by one of the leading competitors. Its perceptive coverage includes games by Smyslov, Keres, Reshevsky, Petrosian, and 11 others. Algebraic notation. 352 diagrams.

"In question & answer format, discusses the history, science, applications, and relevant current issues of quantum physics in an accessible way for the non-scientist"--

Lying and truth-telling are a matter of choice; our innate capacity for mendacity is the source of all story-telling. The title poem sets the thematic tone for this collection which explores the interface between fiction and reality. In "Fanfic", Pugh travels into cyberspace where devoted fans discuss, rewrite and reinvent cult-tv. A second sequence, "Lady Franklin's Man", details the long search for the Arctic explorer Sir John Franklin, his widow's resilience and enduring love shining through in atmospheric recreations of the land-, sea- and mind-scapes of the mid-Victorian era. Other poems include a dubious paean to the 'vampires of mercy' and the prize-winning Toast, a heat-soaked homage to young builders golden and melting on hot pavements.

Paul Ricoeur (1913-2005) was one of the most prolific and influential French philosophers of the Twentieth Century. In his enormous corpus of work he engaged with literature, history, historiography, politics, theology and ethics, while debating 'truth' and ethical solutions to life in the face of widespread and growing suspicion about whether such a search is either possible or worthwhile. In *Ricoeur and the Hermeneutics of Suspicion*, Alison Scott-Baumann takes a thematic approach that explores Ricoeur's lifelong struggle to be both iconoclastic and yet hopeful, and avoid the slippery slope to relativism. Through an examination of the 'hermeneutics of suspicion', the book reveals strong continuities throughout his work, as well as significant discontinuities, such as the marked way in which he later distanced himself from the 'hermeneutics of suspicion' and his development of new devices in its place, while seeking a hermeneutics of recovery. Scott-Baumann offers a highly original analysis of the hermeneutics of suspicion that will be useful to the fields of

philosophy, literature, theology and postmodern social theory.

As the politico-economic exploits of vikings in and around the Frankish realm remain, to a considerable extent, obscured by the constraints of a fragmentary and biased corpus of (near-)contemporary evidence, this volume approaches the available interdisciplinary data on a cumulative and conceptual level, allowing overall spatiotemporal patterns of viking activity to be detected and defined – and thereby challenging the notion that these movements were capricious, haphazard, and gratuitous in character. Set against a backdrop of continuous commerce and knowledge exchange, this overarching survey demonstrates the existence of a relatively uniform, sequential framework of wealth extraction, encampment, and political engagement, within which Scandinavian fleets operated as adaptable, ambulant polities – or 'hydrarchies'. By delineating and visualising this framework, a four-phased conceptual development model of hydrarchic conduct and consequence is established, whose validity is substantiated by its application to a number of distinct regional case studies. The parameters of this abstract model affirm that Scandinavian movements across Francia were the result of prudent and expedient decision-making processes, contingent on exchanged intelligence, cumulative experience, and the ongoing individual and collective need for socioeconomic subsistence and enrichment. Monarchs and Hydrarchs will appeal to both students and specialists of the Viking Age, whilst serving as an equally valuable resource to those investigating early medieval Francia, Scandinavia, and the North Sea world as a whole.

Research Methodology A Handbook is designed as a short introduction to the subject. It is eminently practical in nature. Conceptual issues confusing the research scholar have been dealt with in a lucid manner. The authors believe that even in the social sciences the mechanical or quantitative dimension should precede the sociological dimension. Before the social scientist begins to deal with verbal categories such as role, status, institution, etc, he should be in a position to appreciate the mechanical dimension. Familiarity with the mechanical dimension makes it possible for the research scholar to appreciate the fact that even when the dimension is sociological, the elements of science such as validity and reproducibility come to the fore. The book is based on material published over the last hundred years and the authors believe that the social sciences where cause and effect can still be separated in experienced time have not moved much beyond where they were several years ago.

When Newt Newman's football-star brother, Chris, is knocked into a coma during the biggest game of the season, Newt's two best friends keep his mind off of the accident by helping him create the ultimate Halloween costume: Captain Nobody. Newt feels strong and confident in his new getup, so he keeps wearing it after Halloween is over. Soon Newt assumes the role of a hero in a string of exploits that include foiling a robbery and saving a planeload of passengers. But will Captain Nobody be able to save the one person he cares about most?

A two-volume systematic exposition of superstring theory and its applications which presents many of the new mathematical tools that theoretical physicists are likely to need in coming years. This volume contains an introduction to superstrings

Stress is such an over-used word that it is at time difficult to define its core features. When is an environment stressful? What does a stressful environment do to the brain and to the body? What are the biological mechanisms by which a stressor affects us? How does stress contributes to the onset and the progression of mental disorders? How do the effects of stress change over the life-time of an individual? These are just some of the overarching questions addressed by this book, thanks to the contribution of some of the world leading experts on the neurobiology of stress at the pre-clinical and clinical levels. Topics include current advances on the neurobiology of stress on various neurobiological systems such as immune, hypothalamic-pituitary-adrenal (HPA) axis, neurogenesis and neuroplasticity, neurotransmitter (glutamate, noradrenaline, dopamine, serotonin and endocannabinoid), neuropeptides, cognition and emotional processing as well as in utero and early postnatal effects. The clinical chapters deal with the relationship of stress and mental disorders such as depression, posttraumatic stress disorder (PTSD), anxiety disorders, schizophrenia, bipolar disorder, substance abuse and addiction, dementia and age-related cognitive decline as well as resilience to stress. Thus, this book brings together some of the most updated and authoritative views on the effects of stress of brain and behavior.

Presents a diverse perspective of successful, inspirational and progressive women in science and engineering Women of today from 29 countries provide overviews of their successful careers, the challenges they faced, and offer advice. They have lived in the same era, and perhaps also the same environment as you. Successful Women Ceramic and Glass Scientists and Engineers: 100 Inspirational Profiles features women born in the 1920's to 1970's. Reflecting a diversity of backgrounds and different sectors of the workforce, their profiles include: ?- Affiliation, points of contact, accomplishments (most-cited publication, most prestigious recognitions/awards, etc.), personal insight on her best career moment ? Brief biography, highlights of her successes, images from her career ? Personal commentary on her own career and pointers for younger scientists building careers This book provides novelty, inspiration, motivation and a bright perspective for the next generation of scientists and engineers seeking exciting and fulfilling careers. This book will be invaluable to mentors/professors, students and prospective students in science and engineering, scholars of gender studies, and scientific and engineering societies and organizations. "Lynnette Madsen has done a great service in writing this book, not just for women, but for society at large, because in the twenty-first century, we can no longer underutilize or ignore that half of the best." ? Rita Colwell, Director, United States National Science Foundation 1998-2004, Distinguished University Professor, University of Maryland, College Park, and Johns Hopkins Bloomberg School of Public Health "The book shows that opportunities in science exist in many countries around the world. Reading about the ways that took those women to their current positions is an exciting adventure." ? Yury Gogotsi, Professor, Drexel University "In addition to chronicling careers of great scientists, this book presents an array of career paths to young women and men -- a must read." ? Dr. Rainer Waser, Professor, Aachen University, Germany "It is inspiring to see that the

successful women highlighted in this work are approaching life with courage and joy; they are changing paradigms and serving as voices for young girls. They are passionate about making a difference and breaking barriers; they are classy and fabulous." ? Dr. Olivia Graeve, Professor, University of California, San Diego

Kelley Wingate's Math Practice for fifth grade is designed to help students master basic math skills through focused math practice. Practice pages will be leveled in order to target each student's individual needs for support. Some pages will provide clear, step-by-step examples. The basic skills covered include multiplication and division of fractions, more advanced division, decimals, volume, and a comprehensive selection of other fifth grade math skills. This well-known series, Kelley Wingate, has been updated to align content to the Common Core State Standards. The 128-page books will provide a strong foundation of basic skills and will offer differentiated practice pages to make sure all students are well prepared to succeed in today's Common Core classroom. The books will include Common Core standards matrices, cut-apart flashcard sections, and award certificates. This series is designed to engage and recognize all learners, at school or at home.

The book is a self-contained introduction to the results and methods in classical invariant theory.

Under certain scenarios on the subject of CO<sub>2</sub> emissions, by the end of the century the atmospheric concentration could triple its pre-industrial level. The very large numerical models intended to anticipate the corresponding climate evolutions are designed and quantified from the laws of physics. However, little is generally known about these: genesis of clouds, terms of the greenhouse effect, solar activity intervention, etc. This book deals with the issue of climate modeling in a different way: using proven techniques for identifying black box-type models. Taking climate observations from throughout the millennia, the global models obtained are validated statistically and confirmed by the resulting simulations. This book thus brings constructive elements that can be reproduced by anyone adept at numerical simulation, whether an expert climatologist or not. It is accessible to any reader interested in the issues of climate change.

In *People of the Pear Tree*, Rex Shelley weaves two love stories of Eurasians in the torrid, tropical heat against the background of Japanese-occupied Singapore and Malaya during World War II, spicing his narrative with humour, intrigue and the ring of guerrilla gunshots on the fringes of the Malayan jungle. *People of the Pear Tree* is about people reacting to the disruptions and the brutality of war, clinging to traditions, family ties, finding outlets of love and passionate sex as starvation, malaria, dysentery, torture and death stalk them; of courage in battle and of gentle tenderness, sentimentality, and racial prejudices

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