



The figure shows points  $A$ ,  $B$  and  $C$  with position vectors  $\mathbf{a}$ ,  $\mathbf{b}$  and  $\mathbf{c}$  respectively, relative to an origin  $O$ . The point  $P$  lies on  $AB$  such that  $AP:AB = 3:4$ . The point  $Q$  lies on  $OC$  such that  $OQ:QC = 2:3$ .

(i) Express  $\overrightarrow{AP}$  in terms of  $\mathbf{a}$  and  $\mathbf{b}$  and hence show that  $\overrightarrow{OP} = \frac{1}{4}(\mathbf{a} + 3\mathbf{b})$ . [3]

(ii) Find  $\overrightarrow{PQ}$  in terms of  $\mathbf{a}$ ,  $\mathbf{b}$  and  $\mathbf{c}$ . [3]

(iii) Given that  $5\overrightarrow{PQ} = 6\overrightarrow{BC}$ , find  $\mathbf{c}$  in terms of  $\mathbf{a}$  and  $\mathbf{b}$ . [2]

# June 2013 Maths Paper 1

**Arihant Experts**



## June 2013 Maths Paper 1:

**CTET Success Master Paper 1 for Class 1 to 5 for 2021 Exams** Arihant Experts, 2021-05-26 1 Success Master Study Guides focus in the preparation of CTET teaching Exam 2 This book deals with CTET Mathematics and Science Paper I Classes 1 5 3 Divided into 5 main Sections completely prepared on the latest exam pattern 4 Provides Previous years Solved Papers 2 Practice Sets and more than 3000 MCQs are given for thorough practice CTET provides you with an opportunity to make a mark as an educator while teaching in Central Government School Prepared as per National Curriculum Framework here s representing the updated edition of Success Master CTET Paper I Class I V that serves as a study guide for the candidates who are willing to appear for the exam this year The book provides focused study material dividing the entire syllabus into 5 majors providing the complete coverage With more than 3000 MCQs are provided for the quick revision of the concepts Chapterwise coverage of the previous Years questions along with the Trend Analysis help aspirants for better preparation Lastly Solved Paper 2021 2 Practice Sets are given leaving no stones untouched Preparation done from this book proves to be highly useful for CTET Paper 1 in achieving good rank in the exam TOC Solved Paper 2021 January Solved Paper 2019 December Solved Paper 2019 July Solved Paper 2018 December Solved Paper 2016 September Child Development and Pedagogy English Language and Pedagogy Hindi Bhasha evm Shiksha shastra Mathematics and Pedagogy Environmental Studies and Pedagogy Practice Sets 1 2 *CTET Success Master Maths and Science Paper 2 for Class 6 to 8 for 2021 Exams* Arihant Experts, 2021-05-26 1 Success Master Study Guides focus in the preparation of CTET teaching Exam 2 This book deals with CTET Mathematics and Science Paper 2 Classes 6 8 3 Divided into 5 main Sections completely prepared on the latest exam pattern 4 Provides Previous years Solved Papers 2 Practice Sets and more than 3000 MCQs are given for thorough practice CTET provides you with an opportunity to make a mark as an educator while teaching in Central Government School Prepared as per National Curriculum Framework here s representing the updated edition of Success Master CTET Mathematics Science Paper II Class VI VIII that serves as a study guide for the candidates who are willing to appear for the exam this year The book provides focused study material dividing the entire syllabus into 5 majors providing the complete coverage With more than 3000 MCQs are provided for the quick revision of the concepts Chapterwise coverage of the previous Years questions along with the Trend Analysis help aspirants for better preparation Lastly Solved Paper 2021 2 Practice Sets are given leaving no stones untouched Preparation done from this book proves to be highly useful for CTET Paper 1 in achieving good rank in the exam TOC Solved Paper 2021 January Solved Paper 2019 December Solved Paper 2019 July Solved Paper 2018 December Solved Paper 2016 September Child Development and Pedagogy English Language and Pedagogy Hindi Bhasha evm Shiksha shastra Mathematics and Pedagogy Science and Pedagogy Practice Sets 1 2 **CTET Success Master Maths & Science Paper-2 for Class 6 to 8 2020** Arihant Experts, 2020-01-02 Throughout the world teaching is looked at as one of the most respected and noble profession a person could have A great teacher not only shows

the right path that a student should follow but also prepares the human resources for the further development of the nation Among various exams CTET is the most popular teaching exam in the country Central Teaching Eligibility Test CTET is a national level test conducted by CBSE twice a year to recruit the eligible candidates as teacher The exam is conducted into 2 papers Paper 1 for class 1 5 and Paper 2 for class 6 8 Any candidate who is interested to become a teacher for classes 6 to 8 then they have to appear for both the papers The new the edition of Study Guide Success Master CTET Mathematics and Science Paper II has been prepared completely on the latest exam pattern The book has been divided into 5 key sections and further divided into chapters providing the focused study material After covering theoretical part this book also concentrates on the practice part it provides Previous Years Solved Paper 2 practice sets and more than 3000 MCQs for thorough practice Ample numbers of questions have been given which are covered in a Chapterwise manner that allows candidates to understand the trend of the questions as well as the exam This book will prove to be highly useful for the CTET Paper 2 exam as it will help in achieving the good rank in the exam

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Counterparty Risk and Funding Stéphane Crépey, Tomasz R. Bielecki, Damiano Brigo, 2014-06-23 Solve the DVA FVA Overlap Issue and Effectively Manage Portfolio Credit Risk

Counterparty Risk and Funding A Tale of Two Puzzles explains how to study risk embedded in financial transactions between the bank and its counterparty The authors provide an analytical basis for the quantitative methodology of dynamic valuation mitigation and hedging of bilateral counterparty risk on over the counter OTC derivative contracts under funding constraints They explore credit debt funding liquidity and rating valuation adjustment CVA DVA FVA LVA and RVA as well as replacement cost RC wrong way risk multiple funding curves and collateral The first part of the book assesses today's financial landscape including the current multi curve reality of financial markets In mathematical but model free terms the second part describes all the basic elements of the pricing and hedging framework Taking a more practical slant the third part introduces a reduced form modeling approach in which the risk of default of the two parties only shows up through their

default intensities The fourth part addresses counterparty risk on credit derivatives through dynamic copula models In the fifth part the authors present a credit migrations model that allows you to account for rating dependent credit support annex CSA clauses They also touch on nonlinear FVA computations in credit portfolio models The final part covers classical tools from stochastic analysis and gives a brief introduction to the theory of Markov copulas The credit crisis and ongoing European sovereign debt crisis have shown the importance of the proper assessment and management of counterparty risk This book focuses on the interaction and possible overlap between DVA and FVA terms It also explores the particularly challenging issue of counterparty risk in portfolio credit modeling Primarily for researchers and graduate students in financial mathematics the book is also suitable for financial quants managers in banks CVA desks and members of supervisory bodies

**Mathematical Intelligence** Mubeen Junaid,2022-11-01 A fresh exploration into the human nature versus technology argument revealing an unexpected advantage that humans have over our future robot masters we re actually good at mathematics There s so much discussion about the threat posed by intelligent machines that it sometimes seems as though we should simply surrender to our robot overlords now But Junaid Mubeen isn t ready to throw in the towel just yet As far as he is concerned we have the creative edge over computers because of a remarkable system of thought that humans have developed over the millennia It s familiar to us all but often badly taught in schools and misrepresented in popular discourse math Computers are of course brilliant at totting up sums pattern seeking and performing mindless tasks of well computation For all things calculation machines reign supreme But Junaid identifies seven areas of intelligence where humans can retain a crucial edge And in exploring these areas he opens up a fascinating world where we can develop our uniquely human mathematical talents Just a few of the fascinating subjects covered in MATHEMATICAL INTELLIGENCE include Humans are endowed with a natural sense of numbers that is based on approximation rather than precise calculation Our in built estimation skills complement the precision of computers Interpreting the real world depends on both What sets humans apart from other animals is language and abstraction We have an extraordinary ability to create powerful representations of knowledge more diverse than the binary language of computers Mathematics confers the most robust logical framework for establishing permanent truths Reasoning shields us from the dubious claims of pure pattern recognition systems All mathematical truths are derived from a starting set of assumptions or axioms Unlike computers humans have the freedom to break free of convention and examine the logical consequences of our choices Mathematics rewards our imagination with fascinating and on occasion applicable concepts that originate from breaking the rules Computers can be tasked to solve a range of problems but which problems are worth the effort Questioning is as vital to our repertoire of thinking skills as problem solving itself

*Policy-Making in the GCC* Neil Quilliam,Mark C. Thompson,2017-09-11 The GCC is a major player in the post 2011 reordering of the Middle East Despite the rise in prominence of individual Gulf states especially Kuwait Qatar Saudi Arabia and the United Arab Emirates and the growth of

the GCC as a collective entity surprisingly little attention has been paid to the actual mechanics of policy making in the region This book analyses the vital role that institutions are coming to play in shaping policy in the Gulf Arab states The research coincides with two key developments that have given institutions new importance in the policy process the emergence of a new generation of leaders in the Gulf and the era of low oil prices Both developments along with dramatic demographic change have compelled state and citizens to re evaluate the nature of the social contract that binds them together Contributors assess the changing relationship between state and citizen and evaluate the role that formal and informal institutions play in mediating such change and informing policy The book shows how academic social and economic institutions are responding to the increasingly complex process of decision making where citizens demand better services and further empowerment and states are obliged to seek wider counsel although wanting to retain ultimate authority With contributions from both academics and practitioners this book will be highly relevant for researchers and policymakers alike

Hello World Hannah Fry, 2018-09-18 Shortlisted for the 2018 Baillie Gifford Prize and the 2018 Royal Society Investment Science Book Prize A beautifully accessible guide One of the best books yet written on data and algorithms Times UK If you were accused of a crime who would you rather decide your sentence a mathematically consistent algorithm incapable of empathy or a compassionate human judge prone to bias and error What if you want to buy a driverless car and must choose between one programmed to save as many lives as possible and another that prioritizes the lives of its own passengers And would you agree to share your family s full medical history if you were told that it would help researchers find a cure for cancer These are just some of the dilemmas that we are beginning to face as we approach the age of the algorithm when it feels as if the machines reign supreme Already these lines of code are telling us what to watch where to go whom to date and even whom to send to jail But as we rely on algorithms to automate big important decisions in crime justice healthcare transportation and money they raise questions about what we want our world to look like What matters most Helping doctors with diagnosis or preserving privacy Protecting victims of crime or preventing innocent people being falsely accused Hello World takes us on a tour through the good the bad and the downright ugly of the algorithms that surround us on a daily basis Mathematician Hannah Fry reveals their inner workings showing us how algorithms are written and implemented and demonstrates the ways in which human bias can literally be written into the code By weaving in relatable real world stories with accessible explanations of the underlying mathematics that power algorithms Hello World helps us to determine their power expose their limitations and examine whether they really are improvement on the human systems they replace

*CTET Success Master Social Science/Studies Paper-2 for Class 6 to 8 2020* Arihant Experts, 2020-01-02 Throughout the world teaching is looked at as one of the most respected and noble profession a person could have A great teacher not only shows the right path that a student should follow but also prepares the human resources for the further development of the nation Among various exams CTET is the most popular teaching exam in the country Central Teaching Eligibility Test CTET

is a national level test conducted by CBSE twice a year to recruit the eligible candidates as teacher The exam is conducted into 2 papers Paper 1 for class 1 5 and Paper 2 for class 6 8 Any candidate who is interested to become a teacher for classes 6 to 8 then they have to appear for both the papers The new the edition of Study Guide Success Master CTET Social Science Studies Paper II has been prepared completely on the latest exam pattern The book has been divided into 5 key sections and further divided into chapters providing the focused study material After covering theoretical part this book also concentrates on the practice part it provides Previous Years Solved Paper 2 practice sets and more than 3000 MCQs for thorough practice Ample numbers of questions have been given which are covered in a Chapterwise manner that allows candidates to understand the trend of the questions as well as the exam This book will prove to be highly useful for the CTET Paper 2 exam as it will help in achieving the good rank in the exam

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Pedagogy Practice Sets 1 2      **Games and Learning Alliance**  
Pierpaolo Dondio, Mariana Rocha, Attracta Brennan, Avo Schönbohm, Francesca de Rosa, Antti Koskinen, Francesco Bellotti, 2023-11-28 This LNCS volume constitutes the proceedings of 12th International Conference GALA 2023 in Dublin Ireland held during November December 2023 The 36 full papers and 13 short papers were carefully reviewed and selected from 88 submissions The papers contained in this book have been organized into six categories reflecting the variety of theoretical approaches and application domains of research into serious games 1 The Serious Games and Game Design 2 User experience User Evaluation and User Analysis in Serious Games 3 Serious Games for Instruction 4 Serious Games for Health Wellbeing and Social Change 5 Evaluating and Assessing Serious Games Elements 6 Posters

Education in West Africa Emefa Takyi-Amoako, 2015-05-21 Education in West Africa is a comprehensive critical reference guide to education in the region Written by regional experts the book explores the education systems of Benin Burkina Faso Cameroon Cape Verde Chad The Gambia Ghana Guinea Guinea Bissau Ivory Coast Liberia Mali Mauritania Niger Nigeria Senegal Sierra Leone and Togo It critically examines the development of education provision in each country whilst exploring both local and global contexts Including a comparative introduction to the issues facing education in the region as a whole this handbook is an essential reference for researchers scholars international agencies and policy makers at all levels

**Gendering Women** Clisby, Suzanne, Holdsworth, Julia, 2016-02-17 Available Open Access under CC BY NC ND licence Gendering Women is an engaging and accessible account of how constructions of femininity fundamentally affect women s mental wellbeing through the life course Led by women s life history accounts of growing up and growing older in the north of England this book shows how experiences of becoming and being a woman in family life education employment motherhood and situations of violence both enable and erode self confidence and esteem The challenges to women s mental wellbeing cut across age and class differences and have profound impacts on the material conditions of women s lives

throughout the life course This is in turn a driver of inequality that is often under recognised in mainstream policy Based on feminist and ethnographically informed research with over five hundred women Gendering women provides a critical link between gender theory and the lived realities of women s daily lives and will appeal to students and academics in sociology and social sciences

**Mediated Millennials** Jeremy Schulz,Laura Robinson,Aneka Khilnani,John Baldwin,Heloisa Pait,Apryl A. Williams,Jenny Davis,Gabe Ignatow,2019-11-11 Sponsored by the Communication Information Technologies and Media Sociology Section of the American Sociological Association CITAMS Millennials and Media brings together case studies from across the globe to provide a timely examination of Generation Y s media practices

CTET Success Master Social Science Paper 2 for Class 6 to 8 for 2021 Exams Arihant Experts,2021-05-26 1 Success Master Study Guides focus in the preparation of CTET teaching Exam 2 This book deals with CTET Mathematics and Science Paper 2 Classes 6 8 3 Divided into 5 main Sections completely prepared on the latest exam pattern 4 Provides Previous years Solved Papers 2 Practice Sets and more than 3000 MCQs are given for thorough practice CTET provides you with an opportunity to make a mark as an educator while teaching in Central Government School Prepared as per National Curriculum Framework here s representing the updated edition of Success Master CTET Social Science Studies Paper II Class VI VIII that serves as a study guide for the candidates who are willing to appear for the exam this year The book provides focused study material dividing the entire syllabus into 5 majors providing the complete coverage With more than 3000 MCQs are provided for the quick revision of the concepts Chapterwise coverage of the previous Years questions along with the Trend Analysis help aspirants for better preparation Lastly Solved Paper 2021 2 Practice Sets are given leaving no stones untouched Preparation done from this book proves to be highly useful for CTET Paper 1 in achieving good rank in the exam TOC Solved Paper 2021 January Solved Paper 2019 December Solved Paper 2019 July Solved Paper 2018 December Solved Paper 2016 Child Development and Pedagogy English Language and Pedagogy Hindi Bhasha evm Shiksha shastra Social Science Studies and Pedagogy Pedagogy Practice Sets

Teaching Science Karl Maton,J. R. Martin,Y. J. Doran,2021-04-25 Science has never been more important yet science education faces serious challenges At present science education research only sees half the picture focusing on how students learn and their changing conceptions Both teaching practice and what is taught science knowledge itself are missing This book offers new interdisciplinary ways of thinking about science teaching that foreground the forms taken by science knowledge and the language imagery and gesture through which they are expressed This book brings together leading international scholars from Systemic Functional Linguistics a long established approach to language and Legitimation Code Theory a rapidly growing sociological approach to knowledge practices It explores how to bring knowledge language and pedagogy back into the picture of science education but also offers radical innovations that will shape future research Part I sets out new ways of understanding the role of knowledge in integrating mathematics into science teaching scientific explanations and using multimedia resources such as animations Part II provides new concepts for



showing the role of language in complex scientific explanations in how scientific taxonomies are built and in combining with mathematics and images to create science knowledge Part III draws on the approaches to explore how more students can access scientific knowledge how to teach professional reasoning the role of body language in science teaching and making mathematics understandable to all learners Teaching Science offers major leaps forward in understanding knowledge language and pedagogy that will shape the research agenda far beyond science education *CTET Practice Workbook Paper 2 - Science & Mathematics (10 Solved + 10 Mock papers) Class 6 - 8 Teachers 5th Edition* Disha Experts, CTET Practice Workbook Paper 2 Science Maths 10 Solved 10 Mock papers English Edition contains 10 challenging Mock Papers along with 10 Past Solved Papers The Mock Tests follows the exact pattern as per the latest CTET paper The book also contains the solution to the past CTET papers of June 2011 Jan Nov 2012 July 2013 Feb Sep 2014 Feb Sep 2015 and Feb Sep 2016 Papers The languages covered in the tests are English 1st language and Hindi 2nd language Each Practice Set in the book contains sections on Child Development Pedagogy English Hindi Mathematics and Science The question papers have been set very diligently so as to give a real feel of the actual TET The book is also useful for other State TETs UPTET Rajasthan TET Haryana TET Bihar TET Uttarakhand TET etc Learning from Singapore Pak Tee Ng, 2017-01-12 Learning from Singapore tells the inside story of the country's journey in transforming its education system from a struggling one to one that is hailed internationally as effective and successful It is a story not of the glory of international test results but of the hard work and tenacity of a few generations of policy makers practitioners and teacher trainers Despite its success Singapore continues to reform its education system and is willing to deal with difficult issues and challenges of change Citing Singapore's transformation author Pak Tee Ng highlights how context and culture affect education policy formulation and implementation Showing how difficult education reform can be when a system needs to negotiate between competing philosophies significant trade offs or paradoxical positions this book explores the successes and struggles of the Singapore system and examines its future direction and areas of tension The book also explores how national education systems can be strengthened by embracing the creative tensions generated by paradoxes such as the co existence of timely change and timeless constants centralisation and decentralisation meritocracy and compassion and teaching less and learning more Learning from Singapore brings to the world the learning from Singapore what Singapore has learned from half a century of educational change and encourages every education system to bring hope to and secure a future for the next generation

**AS and A Level Maths For Dummies** Colin Beveridge, 2016-05-02 Pass your AS A level maths with flying colours Looking to pass your AS and A level maths Look no further AS A Level Maths For Dummies offers detailed simple steps for all of the main types of problems you'll face in your exams offering explanations of how the topics link together advice on how to remember the key facts and methods and ways to structure revision Even if your head is spinning and you don't know where to begin this fun and friendly guide gives in depth support on exactly what you need to know In the big data and digital age

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**Harriman's New Book of Investing**

**Rules** Christopher Parker,2017-10-30      *The Routledge Handbook of Embodied Cognition* Lawrence Shapiro,2014-04-29

Embodied cognition is one of the foremost areas of study and research in philosophy of mind philosophy of psychology and cognitive science The Routledge Handbook of Embodied Cognition is an outstanding guide and reference source to the key topics and debates in this exciting subject and essential reading for any student and scholar of philosophy of mind and cognitive science Comprising over thirty chapters by a team of international contributors the Handbook is divided into six parts Historical underpinnings Perspectives on embodied cognition Applied embodied cognition perception language and reasoning Applied embodied cognition social and moral cognition and emotion Applied embodied cognition memory attention and group cognition Meta topics The early chapters of the Handbook cover empirical and philosophical foundations of embodied cognition focusing on Gibsonian and phenomenological approaches Subsequent chapters cover additional important themes common to work in embodied cognition including embedded extended and enactive cognition as well as chapters on empirical research in perception language reasoning social and moral cognition emotion consciousness memory and learning and development

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### **June 2013 Maths Paper 1 :**

Gizmo - Air Track - Name: Jan Louise Quitrino Date Nov 1, 2021 — Gizmo Warm-up An air track is a device that helps scientists study motion. Air comes out of holes in the track, allowing the gliders to move ... Air Track Gizmo Answer Key With Activity A & B - Name Contains answers for the Air Track Gizmo online lab name: jaedon angelus date: student exploration:

air track directions: follow the instructions to go ... Air Track Simulation | ExploreLearning Gizmos Explore this air track simulation with ExploreLearning Gizmos! Students adjust mass and velocity, measure velocity, momentum, and kinetic energy in ... Air Track Answer Key.pdf - Please Do Not Share joskul Explore: The Gizmo allows you to adjust the mass and initial velocity of each glider. Set up each of the following scenarios, and describe what happens when the ... Student Exploration: Air Track: Name: Akshat Date:12/15/20 Dec 15, 2020 — 1. On the Air Track Gizmo, click Play ( ) to view a collision between the two gliders. What do you see? Both gliders come together and ... AirTrack Answers 1. Explore: The Gizmo allows you to adjust the mass and initial velocity of each glider. Set up each of the following scenarios, and describe what happens when ... Air-track-gizmo-answer-key-with-activity-a-b16.pdf - ... (1) On the Air Track Gizmo, after clicking on the ">" button, it's observed that : the two gliders collide with each - other, and then both travel back to ... Gizmos student exploration air track complete solution 100 ... Respond to the questions and prompts in the orange boxes. Vocabulary: air track, approach velocity, conservation of energy, conservation of momentum, elasticity ... Air Track Gizmos\_ All answers correct\_ 2021 - Stuvia Nov 18, 2021 — Respond to the questions and prompts in the orange boxes. Vocabulary: air track, approach velocity, conservation of energy, conservation of ... Air Track B and C | PDF | Collision | Kinetic Energy Approach velocity = separation velocity:  $v_1 - v_2 = v_2' - v_1'$  ... then substitute this expression into the first equation.) ... check your answers. (The Gizmo cannot ... Safety Services Program Sep 21, 2023 — We offer loss control services for businesses with complex risks. Our safety experts can identify areas of risk in all industries and help your ... Frankenmuth Insurance: Business, Home, Auto & Life Insurance Frankenmuth Insurance offers customized coverage for business, home, auto and life insurance. Contact a local agent for a quote with Frankenmuth Insurance. Public Safety The Frankenmuth Police Department may be reached 24/7 for emergencies by calling 911. For business related information call (989) 652-8371. Police officers are ... About Frankenmuth Insurance Fast, fair claims service since 1868. ... Frankenmuth Surety is a division of Frankenmuth Insurance, a property and casualty insurance company providing ... Frankenmuth Police Department This web site is an exciting way to provide information about the department and the services we provide. The Frankenmuth Police Department is a full-service ... Frankenmuth Insurance We truly care about the people we serve and strive to be your insurer of choice by delivering unparalleled protection and service. As a super-regional carrier, ... Frankenmuth School District - Where Effort Opens Opportunity A caring and generous community has supported FSD for many years. Whenever there are resources available to support the cause of learning and safety, our ... Why Frankenmuth is an Epic Destination for Safe Travel Oct 21, 2020 — No buffet services are available at this time. Hand sanitizing stations are available in all public areas of the restaurants and hotel. Dining ... Frankenmuth Insurance Review Safety Services. Industry-Specific Solutions. Insurance Rates. Frankenmuth does not offer online ... The website provides a helpful and comprehensive overview of ... Frankenmuth Credit Union: Home Frankenmuth Credit Union is your local Michigan credit union. Frankenmuth Credit Union



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