

A Level Maths - Paper 1 - 2023 Mark Scheme

No. ph	Question	Answer	Marks
1	$\int \frac{\sqrt{x(2x-5)}}{3} dx$	$\frac{4}{15}x^{\frac{5}{2}} - \frac{10}{9}x^{\frac{3}{2}} + C$	4
2	$f(x) = 4x^3 + 5x^2 - 10x + 4a$ a) Given that $(x - a)$ is a factor of $f(x)$ Find the value of $a$  b) Solve $f(x) = 3$	$a = \frac{3}{4}$ $x = 0, \frac{-5 \pm \sqrt{185}}{8}$	3
3	$a = \log_2 x$ $b = \log_2(x + 8)$ Write the following in terms of $a$ and $b$ :  a) $\log_2 \sqrt{x}$ b) $\log_2(x^2 + 8x)$ c) $\log_2(8 + \frac{64}{x})$	a) $\frac{1}{2}a$ b) $a + b$ c) $3 + b - a$	a) 1 b) 2 c) 3  Total: 6
4)	a) Prove the distance of OA is $\sqrt{38}$ b) Find min value of $a$ given $ OB  >  OA $	b) $a > 3\sqrt{2}$ , but $a$ is an integer so $a = 5$	a) 1 b) 2  Total: 3
5	a) Find $\alpha$ b) $f(x) \equiv -1/2 \cos x = 0$	$\alpha = -0.24...$  $y = \frac{1}{2}x + 3$	a) 3 b) 2 Total: 5
6	a) i) Find the centre of the circle ii) Find the radius  b) range of values values for $k$	a) i) $C(-3k, k)$ ii) $r = \sqrt{10k^2 - 7}$  b) $k < 7 - \sqrt{85}$ or $k > 7 + \sqrt{85}$	a) 3 b) 6 Total: 9

# Mathematics 14th June 2013 Mark Scheme

**Arihant Experts**



## **Mathematics 14th June 2013 Mark Scheme:**

*Conceptual Maths* Peter Mattock, 2023-04-05 Written by Peter Mattock *Conceptual Maths* Teaching about rather than just how to do mathematics in schools aims to empower teachers to support students on a comprehensive and coherent journey through school mathematics Showcasing the best models metaphors and representations it provides excellent examples explanations and exercises that can be used across the curriculum Concepts are at the heart of the study of mathematics They are the ideas that remain constant whenever they are encountered but which combine and build upon each other to create the mathematical universe It is the structure of each concept that gives rise to the procedures that are used in calculation and problem solving and by learning about these structures a learner can make sense of how different processes work and use them flexibly as need demands In his first book *Visible Maths* Peter Mattock focused on the use of representations and manipulatives as images and tools and how this can provide a window into some of these mathematical structures His aim in *Conceptual Maths* is to go deeper beyond the procedures and to shed greater light on the structures of the subject's different concepts The book explores how a variety of visual tools and techniques can be used in the classroom to deepen pupils' understanding of mathematical structures concepts and operations including number addition and subtraction multiplication and multiples division and factors proportionality functionality measures accuracy probability shape and transformation and vectors among many others In so doing Peter equips teachers with the confidence and practical know how to help learners assimilate knowledge of mathematical concepts into their schema and take their learning to the next level Containing numerous full colour diagrams and models to illustrate the conceptual takeaways and teaching techniques discussed *Conceptual Maths* also includes a glossary covering the key mathematical terms Suitable for teachers of maths in primary secondary and post 16 settings

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 **TABLE OF CONTENT** 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 **Using Film and Media in the Language Classroom** Carmen Herrero,Isabelle Vanderschelden,2019-07-11 This book demonstrates the positive impact of using film and audiovisual material in the language classroom The chapters are evidence based and address different levels and contexts of learning around the world They demonstrate the benefits of using moving images and films to develop intercultural awareness and promote multilingualism and suggest Audiovisual Translation AVT activities and projects to enhance language learning The book will be a valuable continuing professional development resource for language teachers and those involved in curriculum development as well as bringing the latest research theory and pedagogical techniques to teacher training courses **The Times Index** ,2013-05 Indexes the Times Sunday times and magazine Times literary supplement Times educational supplement Time educational supplement Scotland and the Times higher education supplement **School Rethink 2.0** Frederick M. Hess,Michael B. Horn,Juliet Squire,2025-02-12 Ten brilliant approaches that are disrupting US education and actionable advice for their broader implementation **Algebra and Coalgebra in Computer Science** Reiko Heckel,Stefan Milius,2013-08-27 This book constitutes the refereed proceedings of the 5th International Conference on Algebra and Coalgebra in Computer Science CALCO 2013 held in Warsaw Poland in September 2013 The 18 full papers presented together with 4 invited talks were carefully reviewed and

selected from 33 submissions The papers cover topics in the fields of abstract models and logics specialized models and calculi algebraic and coalgebraic semantics system specification and verification as well as corecursion in programming languages and algebra and coalgebra in quantum computing The book also includes 6 papers from the CALCO Tools Workshop co located with CALCO 2013 and dedicated to tools based on algebraic and or coalgebraic principles **Metrics** Vincanne Adams,2016-03-05 This volume s contributors evaluate the accomplishments limits and consequences of using quantitative metrics in global health Whether analyzing maternal mortality rates the relationships between political goals and metrics data or the links between health outcomes and a program s fiscal support the contributors question the ability of metrics to solve global health problems They capture a moment when global health scholars and practitioners must evaluate the potential effectiveness and pitfalls of different metrics even as they remain elusive and problematic Contributors Vincanne Adams Susan Erikson Molly Hales Pierre Minn Adeola Oni Orisan Carolyn Smith Morris Marlee Tichenor Lily Walkover Claire L Wendland *Advances in Fluid-Structure Interaction* Marianna Braza,Alessandro Bottaro,Mark Thompson,2016-04-07 This book addresses flow separation within the context of fluid structure interaction phenomena Here new findings from two research communities focusing on fluids and structures are brought together emphasizing the importance of a unified multidisciplinary approach The book covers the theory experimental findings numerical simulations and modeling in fluid dynamics and structural mechanics for both incompressible and compressible separated unsteady flows There is a focus on the morphing of lifting structures in order to increase their aerodynamic and or hydrodynamic performances to control separation and to reduce noise as well as to inspire the design of novel structures The different chapters are based on contributions presented at the ERCOFTAC Symposium on Unsteady Separation in Fluid Structure Interaction held in Mykonos Greece 17 21 June 2013 and include extended discussions and new highlights The book is intended for students researchers and practitioners in the broad field of computational fluid dynamics and computational structural mechanics It aims at supporting them while dealing with practical issues such as developing control strategies for unsteady separation and applying smart materials and biomimetic approaches for design and control SSC 10+2 Combined Higher Secondary Level (CHSL) 101 Speed Tests with Success Guarantee Disha Experts,2017-09-02 SSC 10 2 Combined Higher Secondary Level CHSL 101 Speed Tests with Success Guarantee IF YOU MASTER THIS BOOK SUCCESS IS GUARANTEED IN THE UPCOMING SSC CGL EXAM Yes it s true If you can master this book you will crack the SSC Combined Graduate Level Tier I Tier II Exam for sure The book is the 1st and the Most Innovative Book and makes you feel comfortable Since things are well structured and executed It gives you a proper channel for preparing and guiding you to do things as per these 101 TESTS It contains questions on all the IMPORTANT CONCEPTS which are required to crack this exam The concepts are covered in the form of 101 SPEED TESTS No matter where you PREPARE from a coaching or any textbook Guide 101 SPEED TESTS provides you the right ASSESSMENT on each topic Your performance provides you the

right cues to IMPROVE your concepts so as to perform better in the final examination It is to be noted here that these are not mere tests but act as a checklist of student s learning and ability to apply concepts to different problems The book is based on the concept of TRP Test Revise and Practice It aims at improving your SPEED followed by STRIKE RATE which will eventually lead to improving your SCORE How is this product different 1st unique product with 101 speed tests Each test is based on small topics which are most important for the SSC 10 2 Combined Higher Secondary Level CHSL Exam Each test contains around 30 MCQs on the latest pattern of the exam depending upon its importance for the exam The whole syllabus has been divided into 4 sections which are further distributed into 100 topics 1 Quantitative Aptitude is distributed into 28 topics 2 Reasoning is distributed into 28 topics 3 General English is distributed into 14 topics 4 General Awareness is distributed into 28 topics In the end of each section a Sectional Test is provided so as to sum up the whole section So 1 sectional Test each for Quantitative Aptitude Reasoning General English and General Awareness Finally at the end a FULL TEST is provided so as to give the candidates the real feel of the final exam In all the book contains 3250 Quality MCQ s in the form of 101 tests Solutions to each of the 101 tests are provided at the end of the book Separate Time Limit Maximum Marks Cut off Qualifying Score is provided for each test The book also provides a separate sheet SCORE TRACKER where you can keep a record of your scores and performance It is advised that the students should take each test very seriously and must attempt only after they have prepared that topic The General Awareness section has been updated latest Current Affairs Once taken a test the candidates must spend time in analysing their performance which will provide you the right cues to IMPROVE the concepts so as to perform better in the final examination It is our strong belief that if an aspirant works hard on the cues provided through each of the tests he she can improve his her learning and finally the SCORE by at least 15 20%

*Reign of Error* Diane Ravitch, 2014-08-26 From one of the foremost authorities on education in the United States former U S assistant secretary of education an incisive comprehensive look at today s American school system that argues against those who claim it is broken and beyond repair an impassioned but reasoned call to stop the privatization movement that is draining students and funding from our public schools In a chapter by chapter breakdown she puts forth a plan for what can be done to preserve and improve our public schools She makes clear what is right about U S education how policy makers are failing to address the root causes of educational failure and how we can fix it

**The Mathematical-Function Computation Handbook** Nelson H.F. Beebe, 2017-08-20 This highly comprehensive handbook provides a substantial advance in the computation of elementary and special functions of mathematics extending the function coverage of major programming languages well beyond their international standards including full support for decimal floating point arithmetic Written with clarity and focusing on the C language the work pays extensive attention to little understood aspects of floating point and integer arithmetic and to software portability as well as to important historical architectures It extends support to a future 256 bit floating point format offering 70 decimal digits of precision Select Topics and Features references an

exceptionally useful author maintained MathCW website containing source code for the book's software compiled libraries for numerous systems pre built C compilers and other related materials offers a unique approach to covering mathematical function computation using decimal arithmetic provides extremely versatile appendices for interfaces to numerous other languages Ada C C Fortran Java and Pascal presupposes only basic familiarity with computer programming in a common language as well as early level algebra supplies a library that readily adapts for existing scripting languages with minimal effort supports both binary and decimal arithmetic in up to 10 different floating point formats covers a significant portion with highly accurate implementations of the U S National Institute of Standards and Technology's 10 year project to codify mathematical functions This highly practical text reference is an invaluable tool for advanced undergraduates recording many lessons of the intermingled history of computer hardware and software numerical algorithms and mathematics In addition professional numerical analysts and others will find the handbook of real interest and utility because it builds on research by the mathematical software community over the last four decades

*Algebraic Geometry Codes: Advanced Chapters* Michael Tsfasman, Serge Vlăduț, Dmitry Nogin, 2019-07-02 Algebraic Geometry Codes Advanced Chapters is devoted to the theory of algebraic geometry codes a subject related to local libraryBook Catalogseveral domains of mathematics On one hand it involves such classical areas as algebraic geometry and number theory on the other it is connected to information transmission theory combinatorics finite geometries dense packings and so on The book gives a unique perspective on the subject Whereas most books on coding theory start with elementary concepts and then develop them in the framework of coding theory itself within this book systematically presents meaningful and important connections of coding theory with algebraic geometry and number theory Among many topics treated in the book the following should be mentioned curves with many points over finite fields class field theory asymptotic theory of global fields decoding sphere packing codes from multi dimensional varieties and applications of algebraic geometry codes The book is the natural continuation of Algebraic Geometric Codes Basic Notions by the same authors The concise exposition of the first volume is included as an appendix

Cloud Computing and Security Xingming Sun, Zhaoqing Pan, Elisa Bertino, 2018-09-12 This six volume set LNCS 11063 11068 constitutes the thoroughly refereed conference proceedings of the 4th International Conference on Cloud Computing and Security ICCCS 2018 held in Haikou China in June 2018 The 386 full papers of these six volumes were carefully reviewed and selected from 1743 submissions The papers cover ideas and achievements in the theory and practice of all areas of inventive systems which includes control artificial intelligence automation systems computing systems electrical and informative systems The six volumes are arranged according to the subject areas as follows cloud computing cloud security encryption information hiding IoT security multimedia forensics

**Formal Methods and Software Engineering** Kazuhiro Ogata, Mark Lawford, Shaoying Liu, 2016-10-31 This book constitutes the refereed proceedings of the 18th International Conference on Formal Engineering Methods ICFEM 2016 held in Tokyo Japan in November 2016 The 27 revised full papers

presented together with three invited talks were carefully reviewed and selected from 64 submissions The conference focuses in all areas related to formal engineering methods such as verification and validation software engineering formal specification and modeling software security and software reliability      *Verification, Model Checking, and Abstract Interpretation* Krishna Shankaranarayanan, Sriram Sankaranarayanan, Ashutosh Trivedi, 2025-01-23 The two volume set LNCS 15529 and 15530 constitutes the proceedings of the 26th International Conference on Verification Model Checking and Abstract Interpretation VMCAI 2025 held in Denver CO USA during January 20 21 2025 The 20 full papers together with 2 accepted tool papers and 18 full length regular and case study papers presented in the proceedings were carefully reviewed and selected from 48 submissions The program of VMCAI 2025 conference in the core areas of VMCAI including abstract interpretation programming languages hardware and software model checking cyber physical systems formal synthesis formal methods in artificial intelligence concurrency and other areas      **Origin of Turbulence** Hua-Shu Dou, 2022-03-25 This book presents the new discovery of the origin of turbulence from Navier Stokes equations The fully developed turbulence is found to be composed of singularities of flow field The mechanisms of flow stability and turbulent transition are described using the energy gradient theory which states all the flow instability and breakdown resulted from the gradient of the total mechanical energy normal to the flow direction This approach is universal for flow instability in Newtonian flow and non Newtonian flow The theory has been used to solve several problems such as plane and pipe Poiseuille flows plane Couette flow Taylor Couette flow flows in straight coaxial annulus flows in curved pipes and ducts thermal convection flow viscoelastic flow and magnet fluid flow etc The theory is in agreement with results from numerical simulations and experiments The analytical method used in this book is novel and is different from the traditional approaches This book includes the fundamental basics of flow stability and turbulent transition the essentials of the energy gradient theory and the applications of the theory to several practical problems This book is suitable for researchers and graduate students      **Hydrometallurgy** Suresh Bhargava, Mark Pownceby, Rahul Ram, 2018-07-02 This book is a printed edition of the Special Issue Hydrometallurgy that was published in Metals      The Ordinal Society Marion Fourcade, Kieran Healy, 2024-04-16 Organizations now measure and rank nearly every aspect of our lives using data to make predictions about our purchasing power tastes and character The Ordinal Society shows how these predictions structure life chances producing a hollow morality that launders familiar forms of social advantage into an illusion of merit      **Finance for Normal People** Meir Statman, 2017 Finance for Normal People teaches behavioral finance to people like you and me normal people neither rational nor irrational We are consumers savers investors and managers corporate managers money managers financial advisers and all other financial professionals The book guides us to know our wants including hope for riches protection from poverty caring for family sincere social responsibility and high social status It teaches financial facts and human behavior including making cognitive and emotional shortcuts and avoiding cognitive and emotional errors such as



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