

Mathematics

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Time: 3 hrs.

Full Marks: 100

Pass Marks: 35 (For partial students only)

Attempt all questions.

Group 'A'

5 × 3 × 2 = 30

1. a. Find the truth value of the biconditional statement of p and q where p represents '2 is an even number' and q represents '4 is an even number'.
b. If $f: \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x) = 2x - 3$, find f^{-1}
c. Test the even or odd nature and symmetricity of the function $y = 8x^2$
2. a. Express $\tan^{-1}x$ in terms of inverse of sin function.
b. Prove by mathematical induction: $1 + 3 + 5 + \dots + (2n - 1) = n^2$
c. Find the adjoint of the matrix $\begin{pmatrix} 2 & 5 \\ 3 & -7 \end{pmatrix}$
3. a. Using Cramer's rule, solve: $3x + 2y + 9 = 0$, $2x - 3y + 6 = 0$
b. Express $\sqrt{3} + i$ in polar form.
c. If one root of the equation $ax^2 + bx + c = 0$ be twice the other, show that $2b^2 = 9ac$
4. a. Find the equation of the straight line that has y - intercept '2' and is parallel to $4x - 8y + 3 = 0$
b. Find the equation of the circle which passes through origin and makes equal intercepts on both axes.
c. Evaluate : $\lim_{x \rightarrow 0} \frac{1 - \cos nx}{1 - \cos mx}$

Contd...

Maths Question Paper 2 June Grade 11

Joacim Rocklöv



Maths Question Paper 2 June Grade 11:

Maths Handbook & Study Guide Grade 12 Kevin Smith, 2017-11-01 The Maths Handbook Study Guide is a comprehensive reference book and set of notes that covers everything in one book The book is written in a clear simple visual and logical manner The colour coding facilitates explanations definitions formulas recaps of previous work hints and ideas It is easy to read easy to understand and it is easy to apply what has been learnt It works in conjunction with all other Maths books It is a welcome addition to the Handbook and Study Guide series The Maths Handbook and Study Guide demystifies Maths and helps students to reach their potential in this challenging subject The sub title of the book is Maths Made Easy and this is what it aims to do Kevin ensures that his work is up to date at all times and that it is suitable for IEB and National Curriculum students There are exercises in the front of the book and solutions to problems at the back *Teaching*

Mathematics Creatively Linda Pound, Trisha Lee, 2021-09-30 This revised and updated third edition offers a range of strategies activities and ideas to bring mathematics to life in the primary classroom Taking an innovative and playful approach to maths teaching this book promotes creativity as a key element of practice and offers ideas to help your students develop knowledge understanding and enjoyment of the subject In the creative classroom mathematics becomes a tool to build confidence develop problem solving skills and motivate children The fresh approaches explored in this book include a range of activities such as storytelling music and construction elevating maths learning beyond subject knowledge itself to enable students to see mathematics in a new way Key chapters of this book explore Learning maths outdoors make more noise make more mess or work on a larger scale Everyday maths making sense of the numbers patterns shapes and measures children see around them Music and maths the role of rhythm in learning and music and pattern in maths Stimulating accessible and underpinned by the latest research and theory this is essential reading for trainee and practising teachers who wish to embed creative approaches to maths teaching in their classroom **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 *Maths Handbook & Study Guide Grade 12: Teacher's Guide and Answer Book* Kevin Smith,2014-01-01 Guidelines for teachers and worked through solutions to all the exercises in the Grade 12 Textbook Guidelines for teachers and worked through solutions to all the exercises in the Grade 12 Textbook **Resources in Education** ,1997 *My Road My Steps* Bhagat S Taggar,2020-02-22 My Road My Steps are a valuable read to understand the subtlety of life There is no better school to understand life than the life lived to make a difference The book tells the story of an ordinary boy of uneducated parents from an ordinary farming family of Punjab India He takes a giant step to leave his family with three pounds in pocket for England He becomes a chartered Engineer Successful politician businessman and academic He faces the challenges of life with courage drive and ability He walked through the corridors of power met many world leaders and stood firm when the life hits turbulence He makes contributions in three world countries U k Zimbabwe and Canada It is a story to inspire and to learn a story of an immigrant who is determined and bold The book states ideas to succeed in life 1 Dare to take steps to succeed 2 The road of life for everyone is unique 3 Rise to the opportunities 4 Be bold and courageous 5 Stand firm for your values The book is motivational real story of life with some knowledgeable and historical facts It is an excellent read for young and grown ups *The Times Index* ,2011 Indexes the Times Sunday times and magazine Times literary supplement Times educational supplement Times educational supplement Scotland and the Times higher education supplement **Backpacker** ,2007-09 Backpacker brings the outdoors straight to the reader s doorstep inspiring and enabling them to go more places and enjoy nature more often The authority on active adventure Backpacker is the world s first GPS enabled magazine and the only magazine whose editors personally test the hiking trails camping gear and survival tips they publish Backpacker s Editors Choice Awards an industry honor recognizing design feature and product innovation has become the gold standard against which all other outdoor industry awards are measured **WBPS-C-S Exam PDF-West Bengal Civil Service (Executive) etc. Preliminary Exam Basic Maths/Numerical Ability Subject Only PDF eBook** Chandresh Agrawal,nandini books,2024-06-25 SGN The West Bengal Civil Service Executive etc Preliminary Exam Basic Maths Numerical Ability Subject Only PDF eBook Covers Objective Questions From Various Competitive Exams With Answers **Ntsikelelo's Dream Catcher** Ntsikelelo Goodman Ndesi,2020-01-01 This is an inspirational true story extolling the power of a dream The perception of the world with its endless possibilities Regardless of the circumstances and the challenges honest living accomplishes the truest most well deserved victory Identification of self worth is key to a peaceful approach to life and

perseverance and the practise of patience can prove to be very rewarding Time rewards tons in the presence of the future

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The Pearson Guide to Quantitative Aptitude for CAT 2/e Sinha,2010 The Pearson Guide to Quantitative Aptitude for CAT 2 e has everything you need to secure a top score in the quantitative aptitude papers of the CAT and other MBA entrance examinations Written in a student friendly style this book explains concepts in a concise manner and includes numerous examples and worked out problems It also contains ample practice problems scientifically designed and arranged in four levels in an increasing order of difficulty The text also contains a chapter on Vedic mathematics which provides unique time saving and easy techniques for complex calculations Future Information Engineering and Manufacturing Science Dawei Zheng,2015-02-25 The 2014 International Conference on Future Information Engineering and Manufacturing Science FIEMS 2014 was held June 26 27 in Beijing China The objective of FIEMS 2014 was to provide a platform for researchers engineers academics as well as industry professionals from all over the world to present their research results and development acti

Pratiyogita Darpan ,2007-08 Pratiyogita Darpan monthly magazine is India s largest read General Knowledge and Current Affairs Magazine Pratiyogita Darpan English monthly magazine is known for quality content on General Knowledge and Current Affairs Topics ranging from national and international news issues personality development interviews of examination toppers articles write up on topics like career economy history public administration geography polity social environment scientific legal etc solved papers of various examinations Essay and debate contest Quiz and knowledge testing features are covered every month in this magazine **Resources in Education** ,1996 **Daily Graphic** Yaw Boadu-Ayeboafih,2003-06-03 **Engineering Journal** ,1929 **Engineering** ,1923

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