

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...

Mathematics Paper Two Question Paper Exemplar 2013 Grade 11

Oswaal Editorial Board



Mathematics Paper Two Question Paper Exemplar 2013 Grade 11:

Oswaal CTET (Central Teachers Eligibility Test) 15 Previous Years Solved Papers (2013 - 2023) Paper - II (Classes 6 to 8) (Mathematics & Science) Year-wise For 2024 Exam Oswaal Editorial Board, 2023-11-04 Description of the Product 1 100% Updated with latest fully solved paper of 20th August 2023 2 Concept Clarity with detailed comprehensive explanations 3 Extensive Practice with 2200 Questions and 2 Sample Question Papers 4 Crisp Revision with Smart Mind Maps 5 Expert Tips helps you get expert knowledge Master Crack CTET in first attempt 6 Exam Insights with 5 Years 2019 2023 chapter wise Topic wise Trend Analysis empowering students to be 100% exam *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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Caught in the Act Cyril Julie, Lorna Holtman, Charles R. Smith, 2019-12-11 The research reported in Caught in the Act draws together the insights gained from a continuous professional development initiative for high school mathematics teachers teaching in low socio economic status and socially challenged environments in South Africa The chapters show the possibilities for enhancing achievement in school mathematics if a strength based approach is adopted to develop teaching with teachers and when their concerns are taken seriously The book demonstrates that the ecological relevance fitness for the context in which teachers are teaching of the goods developed and distributed by initiatives should be a major consideration to offer hope for sustainable implementation to improve school mathematics education The book is of interest to mathematics teachers school leaders mathematics curriculum advisors policy makers and researchers

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

Oswaal CBSE 10 Previous Years' Solved Papers, Yearwise (2013-2023) Science (PCM) English Core, Physics, Chemistry & Mathematics Class 12 Book (For 2024 Exam) Oswaal Editorial Board, 2023-06-06 Description of the product 100% Updated with the Latest CBSE Board Paper 2023 Valuable Exam Insights with Out of Syllabus Questions highlighted 100% Exam readiness with Commonly Made Errors and Answering Tips Concept Clarity with Topper s and Board Marking Scheme Answers Crisp revision with Mind Maps and Revision Notes

Tools and Mathematics John Monaghan, Luc Trouche, Jonathan M. Borwein, 2016-04-18 This book is an exploration of tools and mathematics and issues in mathematics education related to tool use The book has five parts The first part reflects on doing a mathematical task with different tools followed by a mathematician s account of tool use in his work The second considers prehistory and history tools in the development from ape to human tools and mathematics in the ancient world tools for calculating and tools in mathematics instruction The third part opens with a broad review of technology and intellectual trends circa 1970 and continues with three case studies of approaches in mathematics education and the place of tools in these approaches The fourth part considers issues related to mathematics instructions curriculum assessment and policy the calculator debate mathematics in the real world and teachers use of technology The final part looks to the future task and tool design and new forms of activity via connectivity and computer games

Developing Research in Mathematics Education Tommy Dreyfus, Michèle Artigue, Despina Potari, Susanne Prediger, Kenneth Ruthven, 2018-04-27

Developing Research in Mathematics Education is the first book in the series New Perspectives on Research in Mathematics Education to be produced in association with the prestigious European Society for Research in Mathematics Education This inaugural volume sets out broad advances in research in mathematics education which have accumulated over the last 20 years through the sustained exchange of ideas and collaboration between researchers in the field An impressive range of contributors provide specifically European and complementary global perspectives on major areas of research in the field on topics that include the content domains of arithmetic geometry algebra statistics and probability the mathematical processes of proving and modeling teaching and learning at specific age levels from early years to university teacher education teaching and classroom practices special aspects of teaching and learning mathematics such as creativity affect diversity technology and history theoretical perspectives and comparative approaches in mathematics education research This book is a fascinating compendium of state of the art knowledge for all mathematics education researchers graduate students teacher educators and curriculum developers worldwide

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