

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...

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questions Section II comprises domain related questions and Section III contains questions on general topics All questions are MCQ based This book of Combined Mock Test Papers for CUET UG aims to provide a comprehensive and well structured resource for students preparing in various streams including Commerce English Accountancy Business Studies Economics and General Test Humanities English History Geography Political Science and General Test Science PCB PCM English Physics Chemistry Biology Mathematics and General Test Here's how this book benefits you 100% updated with the Latest Solved Paper 2024 for unmatched accuracy relevance 20 Mock test papers 4 sets in each subject for extensive practice 1200 Questions approx for comprehensive coverage Answer key with explanations to ensure in depth concept clarity OMR Sheet simulates the real exam experience We believe that consistent practice and familiarity with the exam format are key to excelling in CUET UG By working through these Mock Test Papers students will not only build a strong foundation in their respective subjects but also develop the confidence needed to tackle the exam with ease We hope this book serves as a valuable companion in your preparation journey We wish all aspiring students the very best of luck in their endeavours and future academic pursuits

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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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Exam *Oswaal CTET (CENTRAL TEACHER ELIGIBILITY TEST) 17 Previous Solved Papers Year-wise (2013-2024 July) Paper-II (Classes 6 to 8) Mathematics & Science (For 2025 Exam)* Oswaal Editorial Board,2024-07-29 Oswaal CTET CENTRAL TEACHER ELIGIBILITY TEST 17 Previous Solved Papers Year wise 2013 2024 July Paper II Classes 6 to 8 Mathematics Science For 2025 Exam **Psychology and Mathematics Education** Gila Hanna,Laura Macchi,Karin Binder,Laura Martignon,Katharina Loibl,2023-09-05 Modern Mathematics is constructed rigorously through proofs based on truths which are either axioms or previously proven theorems Thus it is par excellence a model of rational inquiry Links between Cognitive Psychology and Mathematics Education have been particularly strong during the last decades Indeed the Enlightenment view of the rational human mind that reasons makes decisions and solves problems based on logic and probabilities was shaken during the second half of the twentieth century Cognitive psychologists discovered that humans thoughts and actions often deviate from rules imposed by strict normative theories of inference Yet these deviations should not be called errors as Cognitive Psychologists have demonstrated these deviations may be either valid heuristics that succeed in the environments in which humans have evolved or biases that are caused by a lack of adaptation to abstract information formats Humans as the cognitive psychologist and economist Herbert Simon claimed do not usually optimize but rather satisfice even when solving problem This Research Topic aims at demonstrating that these insights have had a decisive impact on Mathematics Education We want to stress that we are concerned with the view of bounded rationality that is different from the one espoused by the heuristics and biases program In Simon s bounded rationality and its direct descendant ecological rationality rationality is understood in terms of cognitive success in the world correspondence rather than in terms of conformity to content free norms of coherence e g transitivity **Mathematical Studies Standard Level for the IB Diploma Coursebook** Caroline Meyrick,Kwame Dwamena,2013-05-30 This completely new title is written to specifically cover the new IB Diploma Mathematical Studies syllabus The significance of mathematics for practical applications is a prominent theme throughout this coursebook supported with Theory of Knowledge internationalism and application links to encourage an appreciation of the broader contexts of mathematics Mathematical modelling is also a key feature GDC tips are integrated throughout with a dedicated GDC chapter for those needing more support Exam hints and IB exam style questions are provided within each chapter sample exam papers online can be tackled in exam style conditions for further exam preparation Guidance and support for the internal assessment is also available providing advice on good practice when writing the project *Quality education* Muchativugwa L. Hove,Martha Matashu,2021-11-30 This book investigates the intersections between education social justice gendered violence and human rights in South African schools and universities The rich and multifarious tapestry of scholarship and literature emanating from South African classrooms provides a fascinating lens through which we can understand the complex consequences of the economies of education social justice imperatives gendered violence in the lives of women and children and marginalised communities The scholarship in

the book challenges readers to imagine alternative futures predicated on the transformational capacity of a democratic South Africa Contributors to this volume examine the many ways in which social justice and gendered violence mirror express project and articulate the larger phenomenon of human rights violations in Africa and how in turn the discourse of human rights informs the ways in which we articulate interrogate conceptualise enact and interpret quality education The book also wrestles with the linguistic contradictions and ambiguities in the articulation of quality education in public and private spaces This book is essential reading for scholars seeking a solid grounding in exploring quality education the instances of epistemic disobedience the political implications of place and power and human rights in theory and practice **The**

Learning and Teaching of Mathematical Modelling Mogens Niss, Werner Blum, 2020-01-16 This book takes stock of the state of affairs of the teaching and learning of mathematical modelling with regard to research development and practice It provides a conceptual framework for mathematical modelling in mathematics education at all education levels as well as the background and resources for teachers to acquire the knowledge and competencies that will allow them to successfully include modelling in their teaching with an emphasis on the secondary school level Mathematics teachers mathematics education researchers and developers will benefit from this book Expertly written and researched this book includes a comprehensive overview of research results in the field an exposition of the educational goals associated with modelling the essential components of modelling competency and an extensive discussion of didacticopedagogical challenges in modelling Moreover it offers a wide variety of illuminating cases and best practice examples in addition to insights into the focal points for future research and practice The Learning and Teaching of Mathematical Modelling is an invaluable resource for teachers researchers textbook authors secondary school mathematics teachers undergraduate and graduate students of mathematics as well as student teachers

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