

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 Grade 11 Question Paper November 2012

Disha Experts



Mathematics Grade 11 Question Paper November 2012:

Cambridge IGCSE® Mathematics Core and Extended Coursebook Karen Morrison, Nick Hamshaw, 2018-03-15 This Cambridge IGCSE Mathematics Core and Extended series has been authored to meet the requirements of the Cambridge IGCSE Mathematics syllabus 0580 0980 for first examination from 2020 This second edition of Cambridge IGCSE Mathematics Core and Extended Coursebook offers complete coverage of the Cambridge IGCSE Mathematics 0580 0980 syllabus It contains detailed explanations and clear worked examples followed by practice exercises to allow students to consolidate the required mathematical skills The coursebook offers opportunities for checking prior knowledge before starting a new chapter and testing knowledge with end of chapter and exam practice exercises Core and Extended materials are presented within the same book and are clearly signposted to allow students to see the range of mathematics required for study at this level Answers are at the back of the book **12 YEAR-WISE CTET Paper 2 (Mathematics & Science) Solved Papers (2011 - 2019) - 2nd English Edition** Disha Experts, 2019-09-06 **CTET Paper 2 Science & Mathematics 12 Solved + 15 Practice Sets (Class 6 - 8 Teachers) 6th Edition** Disha Experts, 2020-02-04 **10 YEAR-WISE CTET Paper 2 (Mathematics & Science) Solved Papers (2011 - 2018) - English Edition** Disha Experts, CTET Paper 2 Science Maths Year wise Solved Papers 2011 2018 English Edition contains Past 10 Solved Papers of the CTET exam The past CTET Solved papers included are 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 **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 **The Independent Schools Guide 2011-2012** Gabbitas, 2011-11-03 All parents want their child to be happy and successful at school but few decisions are harder than identifying the right school for your child The Independent Schools Guide now in its 17th edition provides all the guidance and advice needed to make the most informed decisions The book includes an extensive reference section for over 2 000 schools details on fee planning scholarships and bursaries guidance for overseas parents including language support and guardianship and detailed profiles of over 200 schools and colleges For any parent guardian or carer who is considering the independent sector the Guide is the definitive reference source **2012 GCSE English results** Great Britain: Parliament: House of Commons: Education

Committee,2013-06-11 The 2012 GCSE English results prompted significant controversy which ultimately resulted in an application for judicial review This report sets out the background to these events and identifies lessons to be learned The problems with GCSE English can be traced back to the 2007 09 development phase of the qualification in particular the turbulence which resulted from the shift away from a mostly linear to a modular system combined with a high proportion of controlled assessment and generous marking tolerances Exam board experts raised concerns at the time but these were not acted upon by the regulator the then interim Ofqual Further difficulties arose because of pressures from the school accountability system The problems experienced with GCSE English in 2012 highlighted serious weaknesses in the moderation of speaking and listening with consequences for grade awarding The current status of Ofqual as an independent regulator accountable to Parliament is the right one However the Coalition Government is bringing in wholesale changes to GCSEs and A levels to a tight timetable and at the same time Ofqual must have systems in place The Committee is also concerned that there is a rush towards separate exam systems for England Wales and Northern Ireland without careful reflection on what might be lost or consensus that this is the right thing to do **The Independent Schools Guide**

2012-2013 Gabbitas,2012-12-03 Every parent wants their child to flourish throughout their education but few decisions are more difficult than choosing the right school The Independent Schools Guide from Gabbitas Education has been informing parents in their independent school choices since 1924 Included in this most authoritative and extensive guide to UK independent schools Choosing a school day boarding prep and senior School fees planning Coming from overseas Independent school inspections ISI and Ofsted Extensive directory of UK independent schools Detailed school profiles Sixth form choices including tutorial colleges and beyond To see schools online visit the guide s website at www.independentschoolsguide.com **RBI Assistant 5 Year-wise Preliminary & Main Exams Solved Papers (2012-20)**

Disha Experts,2021-02-04 **The Math Teacher's Toolbox** Bobson Wong,Larisa Bukalov,2020-04-09 Math teachers will find the classroom tested lessons and strategies in this book to be accessible and easily implemented in the classroom The Teacher s Toolbox series is an innovative research based resource providing teachers with instructional strategies for students of all levels and abilities Each book in the collection focuses on a specific content area Clear concise guidance enables teachers to quickly integrate low prep high value lessons and strategies in their middle school and high school classrooms Every strategy follows a practical how to format established by the series editors The Math Teacher s Toolbox contains hundreds of student friendly classroom lessons and teaching strategies Clear and concise chapters fully aligned to Common Core math standards cover the underlying research required technology practical classroom use and modification of each high value lesson and strategy This book employs a hands on approach to help educators quickly learn and apply proven methods and techniques in their mathematics courses Topics range from the planning of units lessons tests and homework to conducting formative assessments differentiating instruction motivating students dealing with math anxiety and

culturally responsive teaching Easy to read content shows how and why math should be taught as a language and how to make connections across mathematical units Designed to reduce instructor preparation time and increase student engagement and comprehension this book Explains the usefulness application and potential drawbacks of each instructional strategy Provides fresh activities for all classrooms Helps math teachers work with ELLs advanced students and students with learning differences Offers real world guidance for working with parents guardians and co teachers The Math Teacher s Toolbox Hundreds of Practical ideas to Support Your Students is an invaluable source of real world lessons strategies and techniques for general education teachers and math specialists as well as resource specialists special education teachers elementary and secondary educators and teacher educators

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