

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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Oswaal CBSE Question Bank Class 11 Mathematics, Chapterwise and Topicwise Solved Papers For 2025 Exams Oswaal Editorial Board, 2024-02-03 Description of the product 100% Updated Syllabus Question Typologies We have got you covered with the latest and 100% updated curriculum along with the latest typologies of Questions Timed Revision with Topic wise Revision Notes Smart Mind Maps Study smart not hard Extensive Practice with 1000 Questions SAS Questions Sri Aurobindo Society To give you 1000 chances to become a champ Concept Clarity with 500 Concepts Concept Videos For you to learn the cool way with videos and mind blowing concepts NEP 2020 Compliance with Competency Based Questions Artificial Intelligence For you to be on the cutting edge of the coolest educational trends X-kit FET Grade 11 Mathematics Irma Kühn, 2007 Oswaal ICSE Question Bank Chapter-wise Topic-wise Class 10 Math | For Board Exam 2025 Oswaal Editorial Board, 2024-04-09 Description of the Product 100% Updated with Latest Syllabus Questions Typologies We have got you covered with the latest and 100% updated curriculum Crisp Revision with Topic wise Revision Notes Smart Mind Maps Study smart not hard Extensive Practice with 700 Questions Self Assessment Papers To give you 700 chances to become a champ Concept Clarity with 500 Concepts Concept Videos For you to learn the cool way with videos and mind blowing concepts 100% Exam Readiness with Expert Answering Tips Suggestions for Students For you to be on the cutting edge of the coolest educational trends **Mathematics Fundamentals** Prem Agrawal, 2024-08-15 This book has identified 93 skills that constitute fundamentals of mathematics Mastery over these skills is essential for doing well in mathematics This book doesn't teach mathematics It is a test series a quality control measure It identifies deficiencies in a student's learning so that remedial action may be taken If your child is good in mathematics he/she can quickly solve the test series and confirm that his/her fundamentals are strong If your child is weak it will help in improving his/her mathematics by identifying his/her weak areas The child can learn at his/her own pace one skill at a time This book is for all boards It is for classes 1-10 but most importantly for classes 5-8 It has a selection from the skills that are taught in school These selected skills may be called Vitamaths or Vital mathematics A student may join the author's free online classes for further guidance **Resources in Education**, 1998 **Journal for Research in Mathematics Education**, 1995 **Research in Education**, 1974 El-Hi Textbooks in Print, 1982 *The Scottish Educational Journal*, 1919 **South African Journal of Psychology**, 1998 **Sessional Papers** Great Britain. Parliament. House of Commons, 1908 **Manitoba School Journal**, 1949 **Mathematical and Analogical Reasoning of Young Learners** Lyn D. English, 2004-07-19 Mathematical and Analogical Reasoning of Young Learners provides foundational knowledge of the nature development and assessment of mathematical and analogical reasoning in young children Reasoning is fundamental to understanding mathematics and is identified as one of the 10 key standards for school mathematics for the new millennium The book draws on longitudinal and cross cultural studies conducted in the United States and Australia of children's reasoning development as they progressed

from preschool through the end of second grade The multifaceted analysis of young children s development of mathematical and analogical reasoning focuses on individual learners their learning environments and the interaction between the two The multidisciplinary team of authors present multiple perspectives and multiple methodologies and provide valuable information on organizing and sustaining interdisciplinary and cross cultural inquiry Key issues addressed include the relationship between mathematical and analogical reasoning how changes in children s reasoning relate to the implicit instruction they receive in their classrooms analyses of the participating teachers knowledge beliefs and practices with respect to mathematical and analogical reasoning of young learners and ways in which we might promote development of mathematical and analogical reasoning in young children This volume is highly relevant for mathematics educators researchers in mathematics education educational psychologists early childhood teachers and others interested in mathematical development of young children in particular the development of their reasoning processes **Bulletin** United States. Office of Education,1911 **Industrial Arts & Vocational Education** ,1945 **Industrial Arts and Vocational Education** ,1926 **Midland Schools** ,1907 *Senate documents* ,1897 *Careers Digest* ,1983 Report of the Committee of Council on Education in Scotland Great Britain. Scottish Education Dept,1919

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