

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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Third Symposium Proceedings. New Ways of Teaching and Learning Janina Morska, Alan Rogerson, This volume contains the papers presented at the Third International Symposium on New Ways of Teaching Learning held from August 6 10 2024 at the Aemilia Hotel Bologna Italy The Conference was organized by The Mathematics Education for the Future Project an international educational project founded in 1986 and dedicated to innovation in mathematics statistics science and computer education world wide **NASA Technical Memorandum** ,1963 **Government Publications of ...** Great Britain. Her Majesty's Stationery Office,1959 A Memorandum on Our Vernaculars, as Media of Elementary Instruction Manibhai Jasbhai,1899 **Parliamentary Papers** Great Britain. Parliament. House of Commons,1918 **Catalogue, Books and Journals in Advanced Mathematics** American Mathematical Society,1985 **Memorandum** Rand Corporation,1968 **The Calendar** University of Calcutta,1909 **Research Memorandum** ,1947 **The Importance Of Being Me: A Trans Reality** Tom Amit,2024-03-01 The Importance of Being Me A Trans Reality is an essential guide for anyone navigating the complexities of gender identity Whether you re a parent of a child questioning their gender a teenager contemplating a transition or someone seeking clarity on the gender sex debate this book offers valuable insights It delves into the experiences of those who have journeyed through Transing or as the author terms it authenticating their true selves This book is a vital resource for understanding and embracing the nuances of gender identity **Memorandum -** ,1967 **Resources in Education** ,1999 **Calendar** University of Calcutta,1929 Includes Examination Papers *Sessional Papers* Great Britain. Parliament. House of Commons,1902 First, supplementary, and second reports, with minutes of evidence and appendices. 1872 (c.536) Great Britain. Royal Commission on Scientific Instruction and the Advancement of Science,1872 Readings in Artificial Intelligence Bonnie Lynn Webber,Nils J. Nilsson,2014-05-12 Readings in Artificial Intelligence focuses on the principles methodologies advancements and approaches involved in artificial intelligence The selection first elaborates on representations of problems of reasoning about actions a problem similarity approach to devising heuristics and optimal search strategies for speech understanding control Discussions focus on comparison with existing speech understanding systems empirical comparisons of the different strategies analysis of distance function approximation problem similarity problems of reasoning about action search for solution in the reduction system and relationship between the initial search space and the higher level search space The book then examines consistency in networks of relations non resolution theorem proving using rewriting rules for connection graphs to prove theorems and closed world data bases The manuscript tackles a truth maintenance system elements of a plan based theory of speech acts and reasoning about knowledge and action Topics include problems in reasoning about knowledge integration knowledge and action models of plans compositional adequacy truth maintenance mechanisms dialectical arguments and assumptions and the problem of control The selection is a valuable reference for researchers wanting to explore the field of artificial intelligence *The*

Scottish Educational Journal ,1919 *Papers Regarding the Educational Conference, Allahabad, February 1911* American Association of Colleges of Osteopathic Medicine. Educational Conference,1911 **Interpellations, Questions and Replies of the National Assembly** South Africa. Parliament (1994-). National Assembly,1997 **Journal of Education and School World** ,1889

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