

MATHEMATICS EXAMINATION

Uganda Certificate of Education

S4 MATHEMATICS

PAPER 1

2HOURS 30MINUTES

INSTRUCTIONS TO CANDIDATES:

- Answer all the questions in section A and any **four(4)** from section B.
- Any additional question(s) answered will not be marked.
- All necessary calculations **must** be shown clearly with the rest of the answer. Therefore, no paper should be given for rough work.
- Graph papers are provided.
- Silent, non programmable scientific calculators and mathematical tables with a list of formulae may be used.

SECTION A (attempt all questions this section)

1. Given that $x \cdot y$ means $(x-y)^2$. Evaluate $(2 \cdot 3) \cdot 4$.
2. The mean of 3, 5, 11, and 17 is M and the mean of 3, 5, 17, 11 and n is M-1. Find
(i). m and n
(ii). the median of 3, 5, 11, 17, n.
3. Given that $P = \sqrt{\frac{2y-3}{y+4}}$ make **y** the subject of the formula.
4. Solve the equation
$$\frac{2x-5}{-3} = \frac{4x+1}{5}$$
5. Given that $\begin{bmatrix} 0 & 1 \\ -2 & 3 \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} 3 \\ -1 \end{bmatrix}$ Find x and y
6. Two shirts and a pair of trousers costs shs. 12,000. One shirt and two pairs of trousers cost shs. 15,000. find the cost of a shirt and a pair of trousers.
7. Factorise the expression $2x^2 + 7x - 15$. Hence find the value of x when $2x^2 + 7x - 15 = 0$.

Mathematical Papers

Arthur Cayley



Mathematical Papers:

Writing Mathematical Papers in English Jerzy Trzeciak, 1995 *The Collected Mathematical Papers of Arthur Cayley* Arthur Cayley, 1895 *Mathematical Papers* George Green, 2013-04-09 An almost entirely self taught mathematical genius George Green 1793 1841 is best known for Green's theorem which is used in almost all computer codes that solve partial differential equations He also published influential essays or papers in the fields of hydrodynamics electricity and magnetism This collection comprises his most significant works The first paper An Essay on the Application of Mathematical Analysis to the Theories of Electricity and Magnetism which is also the longest and perhaps the most Important appeared In 1828 It introduced the term potential as designating the result obtained by adding together the masses of all the particles of a system each divided by its distance from a given point Its three part treatment first considers the properties of this function and then applies them in the second and third parts to the theories of magnetism and electricity The following paper Mathematical Investigations concerning the Laws of the Equilibrium of Fluids analogous to the Electric Fluid exhibits great analytical power as does the next On the Determination of the Exterior and Interior Attractions of Ellipsoids of Variable Densities Other highlights include the brief but absorbing paper On the Motion of Waves in a variable canal of small depth and width and two of his most valuable memoirs On the Laws of Reflexion and Refraction of Sound and On the Reflexion and Refraction of Light at the common surface of two non crystallized Media which should be studied together **Collected Mathematical Papers** A. Ostrowski, 1984-01-01 This publication was made possible through a bequest from my beloved late wife United together in this present collection are those works by the author which have not previously appeared in book form The following are excepted Vorlesungen tiber Differential und Integralrechnung Lectures on Differential and Integral Calculus Vols 1 3 Birkhiiuser Verlag Basel 1965 1968 Aufgabensammlung zur Infinitesimalrechnung Exercises in Infinitesimal Calculus Vols 1 2a 2b and 3 Birkhiiuser Verlag Basel 1967 1977 two issues from Memorial des Sciences on Conformal Mapping written together with C Gattegno Gauthier Villars Paris 1949 Solution of Equations in Euclidean and Banach Spaces Academic Press New York 1973 and Studien tiber den Schottkyschen Satz Studies on Schottky's Theorem Wepf Co Basel 1931 Where corrections have had to be implemented in the text of certain papers references to these are made at the conclusion of each paper In the few instances where this system does not for technical reasons seem appropriate an asterisk in the page margin indicates wherever a correction is necessary and is then given at the end of the paper There is one exception the corrections to the paper on page 561 are presented on page 722 The works are published in 6 volumes and are arranged under 16 topic headings Within each heading the papers are ordered chronologically according to the date of original publication **The Collected Mathematical Papers** Arthur Cayley (mathématicien), 1897 Collected Mathematical Papers: Associative algebras and Riemann matrices Abraham Adrian Albert, Richard E. Block, This book contains the collected works of A Adrian Albert a leading algebraist of the twentieth century Albert made many important

contributions to the theory of the Brauer group and central simple algebras Riemann matrices nonassociative algebras and other topics Part 1 focuses on associative algebras and Riemann matrices part 2 on nonassociative algebras and miscellany Because much of Albert s work remains of vital interest in contemporary research this volume will interest mathematicians in a variety of areas The Collected Mathematical Papers of Henry John Stephen Smith Henry John Stephen Smith,1965 This publication includes all the mathematical papers of H J S Smith in chronological order enabling readers to trace the course of his mathematical studies and tastes Most of the papers are in English some of the papers or notes are in French His work falls into three distinct groups Geometry Theory of Numbers and Elliptic Functions The first paper in Volume II Memoire sur quelques problems cubiques et biquadratiques was a prize memoir for which cojointly with another memoir the Steinder Prize of the Berlin Academy was awarded This publication also includes a Biographical Sketch by Charles H Pearson Recollections of Henry J S Smith by Jowett Lord Bowen J L Strachan Davidson and Alfred Robinson Introduction to the Mathematical Papers by the Editor J W L Glaisher **The Collected Mathematical Papers of James Joseph Sylvester ...** James Joseph Sylvester,1912 **Mathematical Papers** William Kingdon Clifford,2007 *Scientific Papers Made Easy* Stuart West,Lindsay Turnbull,2023 This contemporary guide is packed full of expert tips and suggestions which will provide the reader with the means and motivation to write better scientific papers that are more likely to be read and have impact

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