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﴿پہلا گروپ﴾

نوٹ: حصہ اول لازمی ہے۔ حصہ دوم میں سے کوئی سے تین (3) سوالوں کے جوابات لکھئے۔
(حصہ اول)

(6 x 2 = 12)

- 2- کوئی سے چھ سوالات کے مختصر جوابات تحریر کیجئے:
 - i- مساوی سیٹ کی تعریف کیجئے۔
 - ii- ثنائی ربط کی تعریف کیجئے۔
 - iii- x کی قیمت معلوم کیجئے جبکہ $(x - 1, y + 2) = (2x + 4, -4)$
 - iv- متکافض سے کیا مراد ہے؟
 - v- $(\sqrt{2} + \sqrt{7})$ کا مختصر کیجئے۔
 - vi- کیا سیٹ $\{0, -1\}$ خاصیت بندش بلحاظ جمع اور ضرب رکھتا ہے؟
 - vii- 0.224 کو سائنسی ترتیب میں لکھئے۔
 - viii- خاصہ کی تعریف کیجئے اور مثال دیجئے۔
 - ix- اگر $\log_x 81 = 2$ ہو تو x کی قیمت معلوم کیجئے۔
- 3- کوئی سے چھ سوالات کے مختصر جوابات تحریر کیجئے:
 - i- $y^2 + \frac{1}{4}$ کو مکمل مربع بنانے کیلئے کیا جمع یا تفریق کیا جائے؟
 - ii- $x^2 + y^2$ کی قیمت معلوم کیجئے جبکہ $x - y = 8, xy = -15$
 - iii- ترتیب صعودی سے کیا مراد ہے؟
 - iv- تجزی سے کیا مراد ہے؟
 - v- $1 - x^6$ کی تجزی کیجئے۔
 - vi- $\frac{1}{x^2y^4} + x^2y^4 - 2$ کا جذر الرقع معلوم کیجئے۔
 - vii- $x^2 - 16, x^3 + 64$ کا عاوا عظم معلوم کیجئے۔
 - viii- x^2, xy, x^2y^2 کا ذواضعا ق اقل معلوم کیجئے۔
 - ix- $\frac{a+b}{a^2+ab+b^2} + \frac{1}{a-b} - \frac{ab}{a^3-b^3}$ کو مختصر کیجئے۔

(6 x 2 = 12)

- 4- کوئی سے چھ سوالات کے مختصر جوابات تحریر کیجئے:
 - i- وتری قائب کی تعریف کیجئے۔
 - ii- x کی قیمت معلوم کیجئے جبکہ $x + \begin{bmatrix} 3 \\ 4 \end{bmatrix} = \begin{bmatrix} -4 \\ 3 \end{bmatrix}$
 - iii- $\begin{bmatrix} 1 & 5 \\ 3 & p \end{bmatrix} \begin{bmatrix} q \\ 7 \end{bmatrix} = \begin{bmatrix} 35 \\ 10 \end{bmatrix}$ سے p اور q کی قیمتیں معلوم کیجئے۔
 - iv- متعارف کی تعریف کیجئے۔
 - v- مربع اور متین کا فرق شکل بنا کر واضح کیجئے۔
 - vi- متناظرہ زاویوں کی تعریف کیجئے۔
 - vii- مثلث بنائے جس کے اضلاع کی لمبائیاں 3.5 سم، 4.1 سم اور 4.4 سم ہوں۔
 - viii- عمودی تا صاف کی تعریف کیجئے۔
 - ix- مثلث کے ارتفاع کی تعریف کیجئے۔

(حصہ دوم)

(ہر سوال کے 8 نمبر ہیں اور ہر جزو کے 4 نمبر ہیں)

5- اگر $A = \{a, b, c\}, B = \{b, d, f\}, C = \{a, f, e\}$ تو ثابت کیجئے کہ
 $(A \cap B) \cup (A \cap C) = A \cap (B \cup C)$

6- $x^2 + \frac{1}{x^2}$ کی قیمت معلوم کیجئے اگر $x = \sqrt{2} - 1$
7- لوگار تھم کی مدد سے $\frac{(8.97)^2 \times (1.059)^3}{57.7}$ کی قیمت معلوم کیجئے۔

8- $x^2 + \frac{1}{x^2} = 2$ کی قیمت معلوم کیجئے جبکہ $x + \frac{1}{x} = 2$
9- $64a^2 - 343b^3 - 4a + 7b$ کی تجزی کیجئے۔

10- $4x^3 - 3x^2 - 24x - 9$ اور $8x^3 - 2x^2 - 53x - 39$ کا عاوا عظم پڑائیے تقسیم معلوم کیجئے۔

11- قائبوں کی مدد سے کل سیٹ معلوم کیجئے۔
 $2x - 5y = 1$; $3x + 4y = 36$

12- ABC مثلث کے اضلاع کے عمودی t صاف کیجئے جس میں

$m\bar{AC} = 4.8 \text{ cm}, m\bar{AB} = 6.5 \text{ cm}, m\angle A = 105^\circ$

13- ثابت کیجئے کہ اگر کسی مثلث کے دو اضلاع یا ہم متماثل ہوں تو ان اضلاع کے مخالف زاویے بھی متماثل ہوتے ہیں۔

Matric Maths Paper 2012

Albert Weideman, John Read, Theo du Plessis



Matric Maths Paper 2012:

Caught in the Act Cyril Julie, Lorna Holtman, Charles R. Smith, 2019-12-11 The research reported in *Caught in the Act* draws together the insights gained from a continuous professional development initiative for high school mathematics teachers teaching in low socio economic status and socially challenged environments in South Africa. The chapters show the possibilities for enhancing achievement in school mathematics if a strength based approach is adopted to develop teaching with teachers and when their concerns are taken seriously. The book demonstrates that the ecological relevance fitness for the context in which teachers are teaching of the goods developed and distributed by initiatives should be a major consideration to offer hope for sustainable implementation to improve school mathematics education. The book is of interest to mathematics teachers, school leaders, mathematics curriculum advisors, policy makers and researchers.

Research for Educational Change Jill Adler, Anna Sfard, 2016-06-17 *Research for Educational Change* presents ways in which educational research can fulfil its commitments to educational practice. Focussing its discussion within the context of mathematics education, it argues that while research generated insights can have beneficial effects on learning and teaching, the question of how these effects are to be generated and sustained is far from evident. The question of how to turn research into educational improvement is discussed here in the context of learning and teaching hindered by poverty and social injustice. In the first part of the book, four teams of researchers use different methodologies while analysing the same corpus of data collected in a South African mathematics classroom. In the second part, each of these teams makes a specific proposal about what can be done and how so that its research generated insights have a tangible beneficial impact on what is happening in mathematical classrooms. Combining two discourses that of researchers speaking to one another and that of researchers communicating their insights to those responsible for educational practice, the book deals with the perennial question of communication between those who study educational processes and those who are directly responsible for teacher education, educational research and classroom practices. This book will be key reading for postgraduates, researchers and academics in education and particularly in the areas of mathematics education, education research, teacher education and classroom practice. It will also appeal to teacher educators, practitioners and undergraduate students interested in educational research.

Mathematics Education in the Early Years Martin Carlsen, Ingvald Erfjord, Per Sigurd Hundeland, 2020-03-13 This book gives insights in the vivid research area of early mathematics learning. The collection of selected chapters mirrors the research topics presented at the fourth POEM conference in May 2018. Thematically, the volume reflects the importance of this evolving area of research which has begun to attract attention in the spheres of education and public policy due to increased interest in early years learning. The research foci of the chapters comprise children's mathematical reasoning, early years mathematics teaching and the role of parents for children's mathematical development. The 2018 conference included a wider range of researchers than previous years.

Assessing Academic Literacy in a Multilingual Society Albert

Weideman, John Read, Theo du Plessis, 2020-11-02 South African universities face major challenges in meeting the needs of their students in the area of academic language and literacy The dominant medium of instruction in the universities is English and to a much lesser extent Afrikaans but only a minority of the national population are native speakers of these languages Nine other languages can be media of instruction in schools which makes the transition to tertiary education difficult enough in itself for students from these schools The focus of this book is on procedures for assessing the academic language and literacy levels and needs of students not in order to exclude students from higher education but rather to identify those who would benefit from further development of their ability in order to undertake their degree studies successfully The volume also aims to bring the innovative solutions designed by South African educators to a wider international audience

Social Justice and Transformative Learning Sandra M. Tomlinson-Clarke, Darren L. Clarke, 2016-03-10 The similarities between the United States and South Africa with respect to race power oppression and economic inequities are striking and a better understanding of these parallels can provide educational gains for students and educators in both countries Through shared experiences and perspectives this volume presents scholarly work from U S and South African scholars that advance educational practice in support of social justice and transformative learning It provides a comprehensive framework for developing transformational learning experiences that facilitates leadership for social justice and a deeper understanding of the factors influencing personal national and global identity ICEL2012- 7th International Conference on E-Learning Paul Lam, 2011

ICEL2104-Proceedings of the 9th International Conference on e-Learning Dr Oscar Saavedra Rodriguez, Dr Teresita Arenas Yáñez, 2014 **Mathematics Teacher Training and Development in Africa** Kakoma Luneta, Marc Schäfer, 2024-10-09 This edited volume addresses the need for reforms in mathematics teacher training spurred by scientific advancements and societal changes encompassing calls for changes in curricula content and instructional methods The text highlights the complexities of teaching mathematics specifically within Africa It provides an exploration into how mathematics teacher training has evolved to address challenges such as ineffective teaching approaches lack of resources technological limitations and outdated training programs Through comprehensive systematic reviews for each country in the African region documentation is provided on the past present and envisioned future of teacher training programs This undertaking provides a detailed analysis of mathematics teacher training offering valuable insights for teacher trainers government ministries of education and stakeholders across Africa For anyone invested in enhancing mathematics education in the region this book offers indispensable guidance and knowledge *South African Schooling: The Enigma of Inequality* Nic Spaull, Jonathan D. Jansen, 2019-11-05 This volume brings together many of South Africa's leading scholars of education and covers the full range of South African schooling from financing and policy reform to in depth discussions of literacy numeracy teacher development and curriculum change The book moves beyond a historical analysis and provides an inside view of the questions South African scholars are now grappling with Are there different and

preferential equilibria we have not yet thought of or explored and if so what are they In practical terms how does one get to a more equitable distribution of teachers resources and learning outcomes While decidedly local these questions resonate throughout the developing world South Africa today is the most unequal country in the world The richest 10% of South Africans lay claim to 65% of national income and 90% of national wealth This is the largest 90 10 gap in the world and one that is reflected in the schooling system Two decades after apartheid it is still the case that the life chances of most South African children are determined not by their ability or the result of hard work and determination but instead by the colour of their skin the province of their birth and the wealth of their parents Looking back on almost three decades of democracy in South Africa it is this stubbornness of inequality and its patterns of persistence that demands explanation justification and analysis This is a landmark book on basic education in South Africa an essential volume for those interested in learning outcomes and their inequality in South Africa The various chapters present conceptually and empirically sophisticated analyses of learning outcomes across divisions of race class and place The book brings together the wealth of decades of research output from top quality researchers to explore what has improved what has not and why Prof Lant Pritchett Harvard University There is much wisdom in this collection from many of the best education analysts in South Africa No surprise that they conclude that without a large and sustained expansion in well trained teachers early childhood education and adequate school resources South Africa will continue to sacrifice its people s future to maintaining the privileges of the few Prof Martin Carnoy Stanford University Altogether one can derive from this very valuable volume if not an exact blueprint for the future then certainly at least a crucial and evidence based itinerary for the next few steps Dr Luis Crouch RTI

Higher Education as a Tool for Progress in South Africa D. D. Tewari, 2024-10-08 Education is a tool used to elevate citizens from poverty and unemployment and thus contributes to nation building and the promotion of a knowledge based society in the information age South Africa can take a cue from Asia and its rapid industrialization in the 1970s and its subsequent progressive education The book is an illustrious historical and lucid discussion and commentary on the changing nature of education in the South African Higher education sector in particular It covers a canvass of issues on higher education and the knowledge industry in the South African context and possible challenges that lie ahead The twin challenges of low enrollment and high dropout rates in South African universities especially at first year level are alarming and robbing the country of its economic potential It is the need of the hour to collaborate on an international level to spur knowledge creation and economic growth which South Africa so desperately needs The book is a welcome addition for policy makers and research scholars in higher education

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