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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- متعلقہ 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۔

(6 x 2 = 12)

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
 $(A \cap B) \cup (A \cap C) = A \cap (B \cup C)$

ب) $x^4 + \frac{1}{x^4}$ کی قیمت معلوم کیجئے اگر $x = \sqrt{2} - 1$

6- لوگار تھم کی عدد سے $\frac{(8.97)^2 \times (1.059)^3}{57.7}$ کی قیمت معلوم کیجئے۔

ب) $x^4 + \frac{1}{x^4} = 2$ کی قیمت معلوم کیجئے جبکہ $x + \frac{1}{x}$

7- $64a^2 - 343b^3 - 4a + 7b$ کی تجزی کیجئے۔

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

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

ب) ABC مثلث کے اضلاع کے عمودی t صاف کیجئے جس میں
 $m\bar{AC} = 4.8 \text{ cm}, m\bar{AB} = 6.5 \text{ cm}, m\angle A = 105^\circ$

9- 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

Maritz Spaarwater



Matric Maths Paper 2012:

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

Mathematics Anxiety Irene C. Mammarella, Sara Caviola, Ann Dowker, 2019-02-18 Feelings of apprehension and fear brought on by mathematical performance can affect correct mathematical application and can influence the achievement and future paths of individuals affected by it In recent years mathematics anxiety has become a subject of increasing interest both in educational and clinical settings This ground breaking collection presents theoretical educational and psychophysiological perspectives on the widespread phenomenon of mathematics anxiety Featuring contributions from leading international researchers Mathematics Anxiety challenges preconceptions and clarifies several crucial areas of research such as the distinction between mathematics anxiety from other forms of anxiety i e general or test anxiety the ways in which mathematics anxiety has been assessed e g throughout self report questionnaires or psychophysiological measures the need to clarify the direction of the relationship between math anxiety and mathematics achievement which causes which Offering a revaluation of the negative connotations usually associated with mathematics anxiety and prompting avenues for future research this book will be invaluable to academics and students in the field psychological and educational sciences as well as teachers working with students who are struggling with mathematics anxiety

Proceedings of the International Conference on Computer, Information Technology and Intelligent Computing (CITIC 2022) Su-Cheng Haw, Kalaiarasi Sonai Muthu, 2023-02-10 This is an open access book The 2nd International Conference on Computer Information Technology and Intelligent Computing CITIC 2022 will be held on 25-27 July 2022 virtually This conference is being co organized by Faculty of Computing Informatics FCI and Faculty of Information Science Technology FIST Multimedia University CITIC 2022 aims to bring together leading academic scientists researchers and research scholars to exchange and share their experiences and research results on all aspects of Frontiers in Computer Information Technology and Intelligent Computing It also provides a premier interdisciplinary platform for researchers practitioners and educators to present and discuss the most recent innovations trends and concerns as well as practical challenges encountered and solutions adopted in the fields of Computer Information Technology and

Intelligent Computing This is an open access book **Handbook of Research on Redesigning Teaching, Learning, and Assessment in the Digital Era** Meletiadiou, Eleni, 2023-05-15 Recent evolutions such as pervasive networking and other enabling technologies have been increasingly changing human life knowledge acquisition and the way works are performed and students learn In this societal change educational institutions must maintain their leading role They have therefore embraced digitally enhanced learning to provide increased flexibility and access for their students The Handbook of Research on Redesigning Teaching Learning and Assessment in the Digital Era provides insights into the transformation of education in the digital era and responds to the needs of learners of any context and background through relevant studies that include sound pedagogical and content knowledge Covering key topics such as hybrid learning media remote learning and social media this major reference work is ideal for administrators policymakers academicians researchers scholars practitioners librarians instructors and students Homeschooling High School Shirley Erwee, 2014-08-28 Prospective homeschoolers are parents looking for an alternative to the mainstream educational system for their offspring But homeschooling children at high school level strikes fear into even the most dedicated of homeschoolers They need information and answers to their questions And with the current educational and unemployment problems in South Africa young people need clear direction and guidance to help them achieve their goals In addition to exploring the popular ways to gaining a recognised matric certificate outside the formal school system Homeschooling High School also challenges readers to rethink their values particularly the value they place on certification and to consider some unconventional or alternative paths to success In a clearly presented format the book includes advice on legal matters identifying appropriate courses sourcing study material tips on entrepreneurship financing tertiary studies and the testimonies of successful homeschooled graduates Homeschooling High School is a comprehensive guide to plotting a path through high school and beyond

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

The Training of African Teachers in Natal from 1846-1964 Nicolas Schicketanz, 2024-06-07

The history of African teacher training in Natal is one of the most neglected and under researched aspects of educational history This book attempts to set out the administrative history of this field as a first step in stimulating the further research that is so urgently needed Print edition not for sale in Sub Saharan Africa

Rural Education Across the World Simone White, Jayne Downey, 2021-03-22 This book brings together authors from United States South Africa United Kingdom China Canada and Australia to provide insights and case studies from across a range of contexts to explore the interplay between the notions of rurality innovation and education The book reveals a hopeful and resilient approach to innovative rural education and scholarship collectively and provides important evidence to speak against an often deficit view of rural education Three patterns are revealed namely the importance of place attentive strategies the importance of joined up alliances to maximise resources and networks and finally the need to utilize alternative methodologies and frameworks that have a starting point of difference rather than deficit for any rural initiative or approach By drawing from international examples and responding in innovative ways to rural education challenges this book provides an opportunity to share international insights into innovations interventions and partnerships that promote and support rural education in its broadest sense

The Times Index, 2010 Indexes the Times Sunday times and magazine Times literary supplement Times educational supplement Times educational supplement Scotland and the Times higher education supplement

Human rights in diverse education contexts J.P. Rossouw, Elda de Waal, Johan Beckmann, Johan Botha, Franciska Bothma, André du Plessis, Elize Küng, Nicholas Mollo, Ewelina Niemczyk, Louise Postma, Erika Serfontein, Marius Smit, Charl C.

Wolhuter, 2019-12-12 The focus of this publication is on answering the central research question How can Human Rights be advanced with regard to different kinds of diversities and in different educational settings The publication pays special attention to the advancement of human rights in a variety of education related contexts in keeping with human rights as a declared national priority for both society at large and the education system One strategic priority of the Faculty of Education is research based on market requirements and needs This book strives towards meeting this expectation by directly aiming at building human rights and social justice in the South African society public schools and higher education institutions Adjudication in the education context of the constitutional values of dignity equality and freedom focusses regularly on learners The book highlights the value of education for full fledged citizenship by delineating what schooling should entail to inspire learners towards both claiming equal freedoms and rights and taking accountability for the responsibilities attached to citizenship

Even With Insects Barbara Erasmus, 2012-10-01 A novel about choice the

random decisions that determine the path that life will follow The novel centres around three women who are likened in some way to the characteristics of various insects and are linked by their discordant proportions Ann is too tall a lanky mosquito of a girl Sophie is too fat a bee of royal proportions and Jacqueline is too small the sensual firefly of the team The story moves through time and chronicles the evolution of the women s careers relationships and lifestyles Told with compassion and humour Barbara Erasmus s second novel should prove a good one for book clubs

International Perspectives on Science Education for the Gifted Keith Taber, Manabu Sumida, 2016-04-28 In the spirit of encouraging international dialogue between researchers and practitioners often working within isolated traditions this book discusses perspectives on science education for the gifted informed by up to date research findings from a number of related fields The book reviews philosophy culture and programmes in science education for the gifted in diverse national contexts and includes scholarly reviews of significant perspectives and up to date research methods and findings The book is written in a straightforward style for students studying international perspective modules on undergraduate but especially masters and doctoral degrees in Science Education and Gifted Education Gifted education has come to be regarded as a key national programme in many countries and gifted education in science disciplines is now of major importance to economic and technological development Despite these national initiatives and developments there are very few discussions on gifted education in science from international perspectives This will be a valued addition to the scholarship in this emergent field

Paper Sons and Daughters Ufrieda Ho, 2012-07-04 Ufrieda Ho s compelling memoir describes with intimate detail what it was like to come of age in the marginalized Chinese community of Johannesburg during the apartheid era of the 1970s and 1980s The Chinese were mostly ignored as Ho describes it relegated to certain neighborhoods and certain jobs living in a kind of gray zone between the blacks and the whites As long as they adhered to these rules they were left alone Ho describes the separate journeys her parents took before they knew one another each leaving China and Hong Kong around the early 1960s arriving in South Africa as illegal immigrants Her father eventually became a so called fahfee man running a small time numbers game in the black townships one of the few opportunities available to him at that time In loving detail Ho describes her father s work habits the often mysterious selection of numbers at the kitchen table the carefully kept account ledgers and especially the daily drives into the townships where he conducted business on street corners from the seat of his car Sometimes Ufrieda accompanied him on these township visits offering her an illuminating perspective into a stratified society Poignantly it was on such a visit that her father who is very much a central figure in Ho s memoir met with a tragic end In many ways life for the Chinese in South Africa was self contained Working hard minding the rules and avoiding confrontations they were able to follow traditional Chinese ways But for Ufrieda who was born in South Africa influences from the surrounding culture crept into her life as did a political awakening Paper Sons and Daughters is a wonderfully told family history that will resonate with anyone having an interest in the experiences of Chinese immigrants or perhaps any immigrants the world over

The Child

in Society Hazel R Wright, 2014-11-17 The child has a very special place in society and society defines and shapes childhood Understanding childhood is essential to early years students and this book offers a great introduction Taking a thematic approach chapters cover Historical and Cultural Perspectives Policy and Economic Perspectives Psychological and Biological Perspectives Contemporary Views Each chapter prompts you to reflect on core issues and interrogate your practice and attitudes towards children in your care This fantastic foundation will help you to begin to understand the relationship between the child and society **Ignorance and Bliss** Nancy Datgel, 2012-03-14 This is a story of events as seen and experienced by a private individual during the greater part of the twentieth century Ground covered a child in Essex during WWI convent school in France encounters with a parent disabled in the war universities Sorbonne Oxford love story personal successes WWII private war effort in Berlin for the duration Control Commission the postwar bulge a diplomatic post change over to an anonymous commitment Africa 1960/61 the Ethiopian attempted coup d'état Ghana Sudan Central Europe Prague 20 August 1968 Soviet Union the Helsinki Agreement CSCE Belgrade Madrid Stockholm The manuscript closes in the last decade of the twentieth century It could the author wrote have gone on for further chapters if found too short **Who's who in Germany** Karl Strute, Theodor Doelken, 1983 Vols for 1956 include a separately paged section Directory of organizations associations and institutions *Commonwealth Universities Yearbook*, 1967 A directory to the universities of the Commonwealth and the handbook of their association When One Door Closes Peter Sissons, 2012-02-09 A Liverpool boy from the same cohort as John Lennon Paul McCartney and George Harrison Peter Sissons was destined for great things Then he was caught on the wrong side of rebel lines during the Nigerian Civil War and shot through both legs his blossoming career as a war reporter came abruptly to an end But another door was about to open and Sissons went on to guide a generation through every momentous event of the last forty five years Surprisingly funny dramatic and often poignant When One Door Closes is the bestselling story of Britain's most distinguished newsreader and reveals what he really thinks about the state of the British media global affairs Climategate and the workings of the BBC British Books in Print, 1971 A Spook's Progress Maritz Spaarwater, 2012-07-05 From the 1960s Maritz Spaarwater was an intelligence agent for the South African government first for Military Intelligence and later for National Intelligence In the late 1980s he was among the first to start official discussions overseas with the exiled leadership of the ANC and he became involved in the negotiations that led to the 1994 election This is his story A Spook's Progress plays out in a range of locations from army bases in Namibia to the NIS offices in Pretoria from the dusty streets of Freetown to the luxury of Geneva Threaded through the narrative are encounters with people such as Sam Nujoma Kenneth Kaunda Niel Barnard Roelf Meyer Chris Hani Thabo Mbeki and Jacob Zuma An honest depiction of day to day life as a spy the book delves into the relationship between intelligence agents and their political masters and reveals their behind the scenes role in facilitating the transition At times serious at times ironic and satirical A Spook's Progress is a fascinating and frank account of an intelligence agent's life and work and his shift from

making war to making peace

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