



MODEL PAPER CLASS-XI -2014

100 were taking both tea and coffee. Find how many students were taking neither tea nor coffee?

Q15. Find the value of y in relation: $y = \lim_{x \rightarrow 0} \left(\frac{\sin ax}{\sin bx} \right)^2$

Q16. In how many of the distinct permutations of the letters in MISSISSIPPI do the four I's not come together?

Q17. Let the sum of n , $2n$, $3n$ terms of an A.P. be S_1 , S_2 and S_3 respectively, show that $S_3 = 3(S_2 - S_1)$.

Q18. Find coordinates of the foot of perpendicular from the point $(3, -4)$ to line $4x - 15y + 17 = 0$.

Q19. Find the equation of the circle which passes through the points $(3, 7)$, $(5, 5)$ and has its centre on the line $x - 4y = 1$.

Q20. Find the equation of the circle which passes through the points $(2, -2)$, and $(3, -4)$ and whose centre lies on the line $x + y = 2$.

Q21. A group of two persons is to be selected from two boys and two girls. What is the probability that the group will have

- (a) two boys (b) one boy (c) only girls

Q22. Find the point in XY-plane which is equidistant from three points $A(2, 0, 3)$, $B(0, 3, 2)$ and $C(0, 0, 1)$.

Q23. A market research group conducted a survey of 1000 consumers and reported that 720 consumers like product A and 450 consumers like product B. What is the least number that must have liked both products?

Q24. Solve for x : $2 \cos^2 x + 3 \sin x = 0$.

Section IV

Q25. Find the centroid of a triangle, mid-points of whose sides are $(1, 2, -3)$, $(2, 0, 1)$ and $(-1, 1, -4)$.

Q26. If the ratio of the coefficients of 3rd and 4th terms in the expansion of $\left(x - \frac{1}{2x}\right)^n$ is 1: 2 then find the value of n .

Q27. Find the value of n so that $\left(\frac{a^{n+1} + b^{n+1}}{a^n + b^n}\right)$ may be the geometric mean between a and b .

Q28. The mean and standard deviation of six observations are 8 and 4, respectively. If each observation is multiplied by 3, find the new mean and new standard deviation of the resulting observations.

Q29. P, Q, R shot to hit a target. If P hits it 3 times in 4 trials, Q hits it 2 times in 3 trials and R hits it 4 times in 5 trials, what is the probability that the target is hit by at least two persons?

Q30. Find $(x + 1)^6 + (x - 1)^6$. Hence or otherwise evaluate $y = (\sqrt{2} + 1)^6 + (\sqrt{2} - 1)^6$



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Timothy Brophy



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Mineral Resources, Grade 11 Carla C. Johnson, Janet B. Walton, Erin E. Peters-Burton, 2022-05-25 What if you could challenge your eleventh graders to come up with a design solution for developing managing and utilizing mineral resources With this volume in the STEM Road Map Curriculum Series you can Mineral Resources outlines a journey that will steer your students toward authentic problem solving while grounding them in integrated STEM disciplines Like the other volumes in the series this book is designed to meet the growing need to infuse real world learning into K 12 classrooms This interdisciplinary three lesson module uses project and problem based learning to help students develop an in depth understanding of mineral resources by researching the utility and impact of particular mineral resources on society Working in teams students will locate quantitative and qualitative data on mineral resources and discern the reliability of the information then use their data to write an opinion article and develop a website to convince readers of the effectiveness of a particular design solution for developing managing and utilizing mineral resources To support this goal students will do the following Explain how mineral resources are located and used in various ways in society Explain why mineral resources are important to society Critically evaluate quantitative and qualitative data about mineral resources Write an opinion article demonstrating their knowledge about competing design solutions for extracting mineral resources The STEM Road Map Curriculum Series is anchored in the Next Generation Science Standards the Common Core State Standards and the Framework for 21st Century Learning In depth and flexible Mineral Resources can be used as a whole unit or in part to meet the needs of districts schools and teachers who are charting a course toward an integrated STEM approach

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

Private Secondary Schools 2014-2015 Peterson's,2014-01-09 Peterson's Private Secondary Schools 2014 15 is a valuable resource to help parents and students evaluate and choose from more than 1 100 schools in the United States Canada and throughout the world Featured institutions include independent day schools special needs schools and boarding schools including junior boarding schools for middle school students Profiles offer detailed information on areas of specialization location setting affiliation accreditation tuition and aid availability student body faculty academic programs athletics computers and campus technology and admission information Dozens of in depth descriptions and displays offer photos of students and school campuses as well as essential information to help parents find the right private secondary school for their child Extra Summer Programs section offers additional details on fascinating summer opportunities at private secondary schools

Mathematics & Mathematics Education: Searching for Common Ground Michael N. Fried,Tommy Dreyfus,2013-11-29 This book is the fruit of a symposium in honor of Ted Eisenberg concerning the growing divide between the mathematics community and the mathematics education community a divide that is clearly unhealthy for both The work confronts this disturbing gap by considering the nature of the relationship between mathematics education and mathematics and by examining areas of commonality as well as disagreement It seeks to provide insight into the mutual benefit both stand to gain by building bridges based on the natural bonds between them

Visualisation and Epistemological Access to Mathematics Education in Southern Africa Marc Schäfer,2023-04-27 This book demonstrates that using visualisation processes in mathematics education can help to enhance teaching and learning and bridge the inequality gap that exists between well resourced and under resourced schools in Southern Africa Drawing on classroom research conducted in the Southern African region it examines how epistemological access in a context of gross inequality can be constructively addressed by providing research based solutions and recommendations The book outlines the visualisation process as an integral but often overlooked process of mathematics teaching and learning It goes beyond the traditional understanding of visualisation processes such as picture forming and using tools and considers visualisation processes that are semiotic in nature and includes actions such as gestures in combination with language It adds value to the visualisation in mathematics education research discourse and deliberation in Africa With a unique focus on Southern Africa and open avenues for further research and collaboration in the region it will be a highly relevant reading for researchers academics and post graduate students of mathematics education comparative education and social justice education

PISA A Review of International Large-Scale Assessments in Education Assessing Component Skills and Collecting Contextual Data Cresswell John,Schwantner Ursula,Waters Charlotte,2015-12-11 The OECD has initiated PISA for Development PISA D in response to the rising need of developing countries to collect data about their education systems and the capacity of their student bodies

Interest in Mathematics and Science Learning Ann Renninger,Martina Nieswandt,Suzanne Hidi,2015-04-19 Interest in

Mathematics and Science Learning edited by K Ann Renninger Martin Nieswandt and Suzanne Hidi is the first volume to assemble findings on the role of interest in mathematics and science learning As the contributors illuminate across the volume s 22 chapters interest provides a critical bridge between cognition and affect in learning and development This volume will be useful to educators researchers and policy makers especially those whose focus is mathematics science and technology education

Students' Accuracy in Written English Under the Impression of the new "G8" System - a Case Study Johanna Schroeder, 2014-04-11 Inhaltsangabe Introduction In Germany education matters lie within the scope of each of the 16 German federal states Consequently there is no unique educational system which is valid for the entire Federal Republic of Germany but 16 individual ones However a German wide basic framework including regulations about the compulsory school attendance for instance does exist The duration of compulsory schooling until passing the Abitur at the Gymnasium however is not regulated by this framework but belongs to the power of decision of each federal state For instance in Thuringia and Saxony the duration of compulsory schooling at the Gymnasium has been limited to eight years as it was already the case before the reunification of Germany in 1990 In the other federal states like North Rhine Westphalia for example the duration of compulsory schooling at the Gymnasium included an additional ninth year resulting in the fact that the students attended the Gymnasium from grade 5 until grade 13 Nevertheless in 2001 the ministry of education of the federal state Saarland decided for a reduction of the duration of compulsory schooling at the Gymnasium by one year By now all the other federal states have followed and therefore also made the decision for a reduced duration of only eight years at the Gymnasium After many heated discussions also the North Rhine Westphalian ministry of education decided for a reduction of the duration of compulsory schooling at the Gymnasium As a consequence of this decision students of two grades G8 and G9 students entered the upper secondary level at all North Rhine Westphalian Gymnasien on August 31st 2010 Ministerium f r Schule und Weiterbildung des Landes Nordrhein Westfalen n d a The students of this so called Doppeljahrgang will all graduate in 2013 and therefore all of them will have to pass the same Abitur exams Hence it must be guaranteed that G8 students have the same preconditions as G9 students despite having one year less of general schooling before graduating Since no students have entered the upper secondary level after only five years at the Gymnasium in North Rhine Westphalia before 2010 empirical research in this area is hardly available by now Nevertheless this Doppeljahrgang offers the unique chance of directly comparing G8 and G9 students in order to find out in how far the new G8 system was implemented successfully or not Especially in the context of learning

South African national bibliography ,1999 Classified list with author and title index

Narrating the Soviet Era in Russian School History Textbooks Olga Konkka, 2025-09-03 This study focuses on how Russian history textbooks published between 1992 and 2021 dealt with the topic of the Soviet period 1917 1991 Representations of this part of Russia s past in school manuals have provoked vivid debates and bolstered government intervention in the field while a gradual shift towards a less critical narrative of the USSR

in more recent textbooks is often presented as directed by Vladimir Putin This study combines research into these texts and inquiry into those who write publish approve or criticize them Bringing together these perspectives provides a more complex view of school textbooks as final products of both top down and bottom up processes This volume is aimed at postgraduates researchers and academics specializing in Soviet history contemporary Russian politics and society and history education and textbooks

Research on Reasoning with Data and Statistical Thinking: International Perspectives Gail F. Burrill, Leandro de Oliveria Souza, Enriqueta Reston, 2023-07-21 This book is derived from selected papers from the Fourteenth International Congress on Mathematical Education Topic Study Group 12 Teaching and Learning Statistics It describes recent research on curriculum pedagogy and outreach initiatives from countries as diverse as Brazil Chile Columbia Denmark Germany the Netherlands Spain Sweden Thailand Turkey the United Kingdom and the United States The book has a focus on the use of data in the teaching and learning of statistics across grade levels and begins with an overview of the status of statistics education and the use of data from seven different countries across the continents and the link between research and practice in those countries Because it contains specific examples of the research for example on the ways children learn the choice and implementation of tasks or the role of informal inference the book will be a great resource to those interested and involved in the teaching of statistics curriculum developers and statistics education researchers

Research Handbook on Digital Sociology Jan Skopek, 2023-03-02 Exploring the social implications of digital transformation as well as demonstrating how we might use digital transformation to further sociological knowledge this incisive Handbook provides an extensive overview of cutting edge research on the digital turn of modern society This title contains one or more Open Access chapters

The Oxford Handbook of Assessment Policy and Practice in Music Education, Volume 2 Timothy Brophy, 2019-01-02 In the music classroom instructors who hope to receive aid are required to provide data on their classroom programs Due to the lack of reliable valid large scale assessments of student achievement in music however music educators in schools that accept funds face a considerable challenge in finding a way to measure student learning in their classrooms From Australia to Taiwan to the Netherlands music teachers experience similar struggles in the quest for a definitive assessment resource that can be used by both music educators and researchers In this two volume Handbook contributors from across the globe come together to provide an authority on the assessment measurement and evaluation of student learning in music The Handbook s first volume emphasizes international and theoretical perspectives on music education assessment in the major world regions This volume also looks at technical aspects of measurement in music and outlines situations where theoretical foundations can be applied to the development of tests in music The Handbook s second volume offers a series of practical and US focused approaches to music education assessment Chapters address assessment in different types of US classrooms how to assess specific skills or requirements and how assessment can be used in tertiary and music teacher education classrooms Together both volumes of The Oxford

Handbook of Assessment in Music Education pave the way forward for music educators and researchers in the field

Social Studies Jon Peirce, 2014-06-03 Just let me turn down that armadillo steak I m cooking for dinner then I ll be right with you Such an easy recipe You should try it You just soak your dillo meat in a pint of bourbon in which you ve been soaking a cup of cactus needles overnight Keep the dillo meat soaking for about two weeks until it starts to turn good and high You ll know it s ready when you can get through it fairly easily with a hatchet If you thought the essay was dead think again In the hands of Jon Peirce a writer with a wicked imagination strong social conscience and a keen sense of the absurd the time honoured genre takes many different forms The essays in this book range from short rapier like skewerings of political hypocrisy and injustice to a leisurely exploration of the metric system and its implications for writers In between you will find many pieces that will make you laugh a few that will make you cry and some that will leave you shaking your head in wonderment Enjoy

Creating Stellar Lessons with Digital Tools Kenneth J. Luterbach, 2022-05-12 Creating Stellar Lessons with Digital Tools prepares teachers in training and in service teachers to use technologies for design and development activities with middle and high school students While software open resources handheld devices and other tools hold great potential to enhance learning experiences teachers themselves must model technology use in ways that inspire students to become producers and leaders rather than consumers and followers Featuring concrete applications in social studies English mathematics and science scenarios this book provides pre service and in service teachers with seven paths to creatively integrate and innovate with computational thinking datasets maker spaces visual design media editing and other approaches

Innovative Applications of Online Pedagogy and Course Design Sharma, Ramesh C., 2018-05-09 New tools and technologies are being developed to cater to the e learning triangle of content technology and services These developments in technology needs of students emergence of new modes of education like MOOCs or flipped classrooms etc have resulted in a change in the approach to teaching Innovative Applications of Online Pedagogy and Course Design is a critical publication that explores e learning as a tool for instructional delivery across various kinds of educational institutions and at all levels Featuring coverage on a wide range of topics such as distance education cumulative sentence analysis and primary teacher training this book is geared toward educators professionals school administrators researchers and practitioners seeking current and relevant research on instructional design and delivery in online and technology based courses

Educational Measurement Craig S. Wells, Molly Faulkner-Bond, 2016-04-26 This book introduces and explores major topics in contemporary educational measurement criterion referenced testing item response theory IRT computer based testing cross lingual and cross cultural assessment and accountability testing Psychometric experts describe forward looking measurement practices and provide a contextualized understanding of how and why they were developed how they can be used and where they may go in the future In addition to presenting key concepts and formulas the volume covers established and emerging applications and discusses recurrent challenges that require additional research A helpful glossary

of abbreviations is included The book is grounded in the work of Ronald K Hambleton *2024-25 UPSSSC General Hindi Solved Papers* YCT Expert Team, 2024 25 UPSSSC General Hindi Solved Papers Sustainability and Financial Services in the Digital Age Nadia Mansour,Lorenzo M. Bujosa Vadell,2024-10-21 This volume examines how innovation and digital transformation impact the financial and accounting sectors Featuring selected contributions from the third Finance Accounting and Law in the Digital Age conference 2024 held at the University of Salamanca Spain the contributions of this book explore the development of digital finance and the complicated equation between financial stability the security of investors and financial consumers sustainable finance and support for innovation Climate change and the exponential growth of technology have built an explosion of financial innovation The digital revolution has recently reached the financial sector protected by a specific regulatory environment The volume describes how all areas of finance are now invested by new players who are transforming the banking and financial landscape to create a novel digital ecosystem **Bridging Research and Practice in Science Education** Eilish McLoughlin,Odilla E. Finlayson,Sibel Erduran,Peter E. Childs,2019-08-27 This edited volume presents innovative current research in the field of Science Education The chapter s deal with a wide variety of topics and research approaches conducted in a range of contexts and settings Together they make a strong contribution to knowledge on science teaching and learning The book consists of selected presentations from the 12th European Science Education Research Association ESERA Conference held in Dublin Ireland from 21st to 25th August 2017 The ESERA community is made up of professionals with diverse disciplinary backgrounds from natural sciences to social sciences This diversity enables a rich understanding of cognitive and affective aspects of science teaching and learning The studies in this book will stimulate discussion and interest in finding new ways of implementing and researching science education for the future The twenty two chapters in this book are presented in four parts highlighting innovative approaches to school science emerging identities in science education approaches to developing learning and competence progressions and ways of enhancing science teacher education This collection of studies showcases current research orientations in science education and is of interest to science teachers teacher educators and science education researchers around the world with a commitment to bridging research and practice in science teaching and learning

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