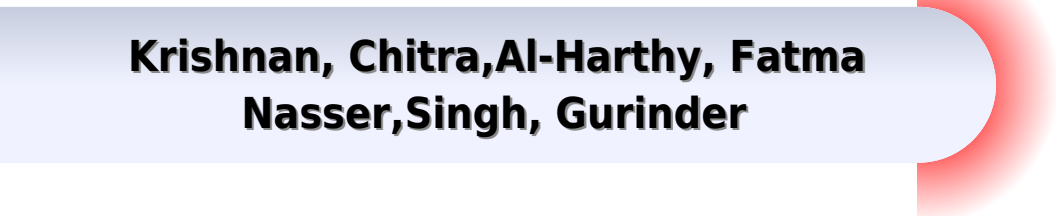


Ekurhuleni North	District Paper – Mathematics Paper 2 Grade 11 Marking Guideline	June 2023
SOLUTION NB: Accept valid alternate solutions. Consistent Accuracy applies to the whole memo.		
QUESTION 1		
1.1	$m_{HM} = \frac{6 - 4}{3 + 1}$ $= \frac{1}{2}$	✓ subs into formula ✓ answer
1.2	$R(x; y) = \left(\frac{3 + 4}{2}; \frac{6 + 1}{2} \right)$ $= \left(\frac{7}{2}; \frac{7}{2} \right)$	✓ Correct Substitution ✓ Answer
1.3	$m_{HM} = m_{AP}$ $\tan \theta = \frac{1}{2}$ $\theta = 26,57^\circ$	✓ $HM \parallel AT$ ✓ Correct substitution ✓ Answer
1.4	R is the midpoint of diagonal AH (Diags of a parm) Let the coordinates of A be $(x; y)$. $\frac{-1 + x}{2} = \frac{7}{2}$ $x = 8$ $\frac{4 + y}{2} = \frac{7}{2}$ $y = 3$ $\therefore A(8; 3)$	$\checkmark \frac{-1+x}{2} = \frac{7}{2}$ $\checkmark 8$ $\checkmark \frac{4+y}{2} = \frac{7}{2}$ $\checkmark 3$
1.5	$m_{AT} = \frac{1}{2} \text{ (parallel lines)}$ $y = \frac{1}{2}x + c$ Sub $T(4; 1)$	 ✓ Sub $T(4; 1)$ ✓ $c = -1$

2014 Paper June Exam Memo Maths

**Krishnan, Chitra, Al-Harthy, Fatma
Nasser, Singh, Gurinder**



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The Years That Matter Most Paul Tough, 2019-09-12 What has gone wrong in our universities And how do we make it right When Amy applied to university she thought she d be judged purely on her merits But she never thought that her family background would have as much impact on her future as her grades When KiKi arrived at university she knew she could be the only black woman in her class But she didn t know how out of place she would feel nor how unwelcoming her peers would be When Orry graduated from university he was told he d probably land a six figure salary But he wasn t told he d end up barely scraping a living wage struggling to feed his children Drawing on the stories of hundreds of American students *The Years That Matters Most* is a revelatory account of a university system in crisis Paul Tough bestselling author of *How Children Succeed* exposes a world where small town colleges go bust while the most prestigious raise billions every year where overstretched admissions officers are forced to pick rich candidates over smart ones where black and working class students are left to sink or swim on uncaring campuses Along the way he uncovers cutting edge research from the academics leading the way to a new kind of university one where students succeed not because of their background but because of the quality of their minds The result is a call to arms for universities that work for everyone and a manual for how we can make it happen

How We Teach Science John L. Rudolph, 2019-06-01 A former Wisconsin high school science teacher makes the case that how and why we teach science matters especially now that its legitimacy is under attack Why teach science The answer to that question will determine how it is taught Yet despite the enduring belief in this country that science should be taught there has been no enduring consensus about how or why This is especially true when it comes to teaching scientific process Nearly all of the basic knowledge we have about the world is rock solid The science we teach in high schools in particular laws of motion the structure of the atom cell division DNA replication the universal speed limit of light is accepted as the way nature works Everyone also agrees that students and the public more generally should understand the methods used to gain this knowledge But what exactly is the scientific method Ever since the late 1800s scientists and science educators have grappled with that question Through the years they ve advanced an assortment of strategies ranging from the laboratory method to the five step method to science as inquiry to no method at all *How We Teach Science* reveals that each

strategy was influenced by the intellectual cultural and political circumstances of the time In some eras learning about experimentation and scientific inquiry was seen to contribute to an individual s intellectual and moral improvement while in others it was viewed as a way to minimize public interference in institutional science John Rudolph shows that how we think about and teach science will either sustain or thwart future innovation and ultimately determine how science is perceived and received by the public

The Schenley Experiment Jake Oresick,2017-04-14 The Schenley Experiment is the story of Pittsburgh s first public high school a social incubator in a largely segregated city that was highly even improbably successful throughout its 156 year existence Established in 1855 as Central High School and reorganized in 1916 Schenley High School was a model of innovative public education and an ongoing experiment in diversity Its graduates include Andy Warhol actor Bill Nunn and jazz virtuoso Earl Hines and its prestigious academic program and pensions lured such teachers as future Pulitzer Prize winner Willa Cather The subject of investment as well as destructive neglect the school reflects the history of the city of Pittsburgh and provides a study in both the best and worst of urban public education practices there and across the Rust Belt Integrated decades before Brown v Board of Education Schenley succumbed to default segregation during the white flight of the 1970s it rose again to prominence in the late 1980s when parents camped out in six day long lines to enroll their children in visionary superintendent Richard C Wallace s reinvigorated school Although the historic triangular building was a cornerstone of its North Oakland neighborhood and a showpiece for the city of Pittsburgh officials closed the school in 2008 citing over 50 million in necessary renovations a controversial event that captured national attention Schenley alumnus Jake Oresick tells this story through interviews historical documents and hundreds of first person accounts drawn from a community indelibly tied to the school A memorable important work of local and educational history his book is a case study of desegregation magnet education and the changing nature and legacies of America s oldest public schools

MPSC Subordinate Services Combined Group B Prelims Exam | 10 Full-length Mock Tests (Solved 1000+ Questions) EduGorilla Prep Experts,2022-08-03 Best Selling Book in English Edition for MPSC Subordinate Services Combined Group B Prelims Exam with objective type questions as per the latest syllabus given by the MPSC Compare your performance with other students using Smart Answer Sheets in EduGorilla s MPSC Subordinate Services Combined Group B Prelims Exam Practice Kit MPSC Subordinate Services Combined Group B Prelims Exam Preparation Kit comes with 10 Full length Mock Tests with the best quality content Increase your chances of selection by 14X MPSC Subordinate Services Combined Group B Prelims Exam Prep Kit comes with well structured and 100% detailed solutions for all the questions Clear exam with good grades using thoroughly Researched Content by experts

An Age of Accountability John L. Rury,2023-10-13 An Age of Accountability highlights the role of test based accountability as a policy framework in American education from 1970 to 2020 For more than half a century the quest to hold schools and educators accountable for academic achievement has relied almost exclusively on standardized assessment The theory of change embedded in almost all test based accountability

programs held that assessment with stipulated consequences could lead to major improvements in schools This was accomplished politically by proclaiming lofty goals of attaining universal proficiency and closing achievement gaps which repeatedly failed to materialize But even after very clear disappointments no other policy framework has emerged to challenge its hegemony The American public today has little confidence in institutions to improve the quality of goods and services they provide especially in the public sector As a consequence many Americans continue to believe that accountability remains a vital necessity even if educators and policy scholars disagree

Learning, Creating, and Using Knowledge Joseph D. Novak, 2010-02-02 This fully revised and updated edition of Learning Creating and Using Knowledge recognizes that the future of economic well being in today's knowledge and information society rests upon the effectiveness of schools and corporations to empower their people to be more effective learners and knowledge creators Novak's pioneering theory of education presented in the first edition remains viable and useful This new edition updates his theory for meaningful learning and autonomous knowledge building along with tools to make it operational that is concept maps created with the use of CMapTools and the V diagram The theory is easy to put into practice since it includes resources to facilitate the process especially concept maps now optimised by CMapTools software CMapTools software is highly intuitive and easy to use People who have until now been reluctant to use the new technologies in their professional lives will find this book particularly helpful Learning Creating and Using Knowledge is essential reading for educators at all levels and corporate managers who seek to enhance worker productivity

What's Our Problem? Tim Urban, 2023-02-21 From the creator of the wildly popular blog Wait But Why a fun and fascinating deep dive into what the hell is going on in our strange unprecedented modern times Between 2013 and 2016 Tim Urban became one of the world's most popular bloggers writing dozens of viral long form articles about everything from AI to colonizing Mars to procrastination Then he turned his attention to a new topic the society around him Why was everything such a mess Why was everyone acting like such a baby When did things get so tribal Why do humans do this stuff This massive topic sent Tim tumbling down his deepest rabbit hole yet through mountains of history evolutionary psychology political theory neuroscience and modern day political movements as he tried to figure out the answer to a simple question What's our problem Six years later he emerged from the hole holding this book What's Our Problem is a deep and expansive analysis of our modern times in the classic style of Wait But Why packed with original concepts sticky metaphors and 300 drawings The book provides an entirely new framework and language for thinking and talking about today's complex world Instead of focusing on the usual left center right horizontal political axis which is all about what we think the book introduces a vertical axis that explores how we think as individuals and as groups Readers will find themselves on a delightful and fascinating journey that will ultimately change the way they see the world around them Anyway he wanted to say a lot more about all of this but there was a word limit on this book description so just go read the book

Technology Training for Educators From Past to Present Krishnan, Chitra, Al-Harthy,

Fatma Nasser, Singh, Gurinder, 2022-06-10 In the past decade rapid digitalization has changed many elements of society and education is no exception The tradition of teacher centered education has been long held in education and is still extremely well established Due to the access of technology for knowledge and education however the teacher s function in many classrooms has been to advise and guide as students take greater responsibility for their own learning using technology to collect information Schools and universities across the world are beginning to redesign their learning spaces to enable this new model of education foster more interaction and small group work and use technology as an enabler of knowledge Technology Training for Educators From Past to Present addresses the issues facing our education systems today and the role of technology and innovation in the global transformation of education This book focuses on the fundamental need for educators at all levels to become knowledgeable with the technological teaching and learning tools at their disposal in order to best support student learning Covering topics such as inclusion promotion in education technology professional development and online learning environments this premier reference source is a valuable resource for educational administration and faculty educators of K 12 and higher education educational software developers IT consultants pre service teachers libraries teaching colleges researchers and academicians *Our Army* ,1945 **Forecasting Government**

Budgets Aman Khan, Kenneth A. Kriz, 2022-12-15 Forecasting is integral to all governmental activities especially budgetary activities Without good and accurate forecasts a government will not only find it difficult to carry out its everyday operations but will also find it difficult to cope with the increasingly complex environment in which it has to operate This book presents in a simple and easy to understand manner some of the commonly used methods in budget forecasting simple as well as advanced The book is divided into three parts It begins with an overview of forecasting background forecasting process and forecasting methods followed by a detailed discussion of the actual methods in Parts I II and III Part I discusses a combination of basic time series models such as percentage average simple moving average double moving average exponential moving average double as well as triple simple trend line time series with cyclical variation and time series regression with single and multiple independent variables Part II discusses some of the more advanced but frequently used time series models such as ARIMA regular as well as seasonal Vector Autoregression VAR and Vector Error Correction VEC Part III provides an overview of three of the more recent advances in time series models namely ensemble forecasting state space forecasting and neural network The book concludes with a brief discussion of some practical issues in budget forecasting **Who's who in America** ,1962 **Sqa Specimen Paper 2014 Past Paper National 5 Lifeskills**

Mathematics Sqa (Hodder Ed), 2014-09-26

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