

MAY/JUNE 2023!



basic education

Department
Basic Education
REPUBLIC OF SOUTH AFRICA

SENIOR CERTIFICATE EXAMINATIONS
NATIONAL SENIOR CERTIFICATE EXAMINATIONS

MATHEMATICS P1

MAY/JUNE 2023

MARKS: 100

TIME: 1 hour



QUESTION 1

1.1 Solve for x .

1.1.1 $x^2 + 3x + 10 = 0$

1.1.2 $3x^2 + 5x + 1 = 0$ (answer in TWO decimal places)

1.1.3 $3^{2x} + 2^x = 0,004$

1.1.4 $6x + 0,04x + 1 = 0$

1.1.5 $x = \sqrt{4x + 3} + 1$

1.2 A rectangle having sides of $(x + 2)$ metres and $(x + 3)$ metres has a perimeter of 24 metres and an area of 10 square metres. Calculate the values of x and y .

1.3 Show that $\frac{1}{2}(x^m + x^n)^2 - \frac{1}{2}(x^m - x^n)^2$ is divisible by 2 for all real values of m and n .

Maths Paper 1 Grade 12 June 2011

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22 Topic-wise CTET Paper 1 Previous Year Solved Papers (2024 - 2011) Class 1 - 5 Teachers | Child Development & Pedagogy, English, Hindi, EVS & Mathematics Disha Experts, 2024-10-22 The First edition of the book 22 TOPIC WISE CTET Paper 1 Solved Papers 2024 2011 English Edition contains detailed Solutions to the Past 22 Solved Papers of the CTET exam from 2011 to 2024 The past 22 CTET Solved papers included are June 2011 Jan Section II mathematics has 15 Topics Section III EVS has 13 Topics Section IV English 11 Topics Section V Hindi has 10 Topics The detailed solutions are provided immediately after each topic Solutions are provided for each question The languages covered in the tests are English 1st language and Hindi 2nd language The book is 100% useful for UPTET HTET MPTET CGTET UKTET HPTET BTET PTET and other STET Exam CTET Success Master Maths & Science Paper-2 for Class 6 to 8 2020 Arihant Experts, 2020-01-02 Throughout the world teaching is looked at as one of the most respected and noble profession a person could have A great teacher not only shows the right path that a student should follow but also prepares the human resources for the further development of the nation Among various exams CTET is the most popular teaching exam in the country Central Teaching Eligibility Test CTET is a national level test conducted by CBSE twice a year to recruit the eligible candidates as teacher The exam is conducted into 2 papers Paper 1 for class 1 5 and Paper 2 for class 6 8 Any candidate who is interested to become a teacher for classes 6 to 8 then they have to appear for both the papers The new the edition of Study Guide Success Master CTET Mathematics and Science Paper II has been prepared completely on the latest exam pattern The book has been divided into 5 key sections and further divided into chapters providing the focused study material After covering theoretical part this book also concentrates on the practice part it provides Previous Years Solved Paper 2 practice sets and more than 3000 MCQs for thorough practice Ample numbers of questions have been given which are covered in a Chapterwise manner that allows candidates to understand the trend of the questions as well as the exam This book will prove to be highly useful for the CTET Paper 2 exam as it will help in achieving the good rank in the exam **TABLE OF CONTENT** Solved Paper 2019 December Solved Paper 2019 July Solved Paper 2018 December Solved Paper 2016 September Child Development and Pedagogy English Language and Pedagogy Hindi Bhasha evm Shiksha Shastra Mathematics and Pedagogy Science and Pedagogy Practice Sets 1 2 **Language and Learning in Multilingual Classrooms** Elizabeth Coelho, 2012 This book offers practical research based advice for teachers and other educators on how to adapt school and classroom procedures curriculum content and instructional strategies in order to provide a supportive learning environment for students of minority language backgrounds who are learning the language of instruction at the same time as they are learning the curriculum Parliamentary Debates (Hansard). Great Britain. Parliament. House of Commons, 2013 *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 Armed Forces Covenant in action? Great Britain: Parliament: House of Commons: Defence Committee, 2013-07-18 A series of Ofsted inspections on Army Apprenticeships conducted in 2013 rated the overall effectiveness as good This was an improvement over the last inspection in 2009 rated as satisfactory now called requires improvement Some 28 per cent of Army recruits were less than 18 years of age Further information is needed on why the Army is so dependent on recruiting personnel under the age of 18 years compared to the other two Services and whether steps are being taken to reduce this dependency Of those recruited in 2012 35 per cent of the Army were rated at entry level 2 for literacy that of a 7 to 8 year old and 39 per cent had a literacy level of an eleven year old If as the MoD states it has to recruit personnel at whatever level of attainment is available then it should boost remedial action when recruitment entry standards are particularly low In light of changes brought about by Future Force 2020 it may be that recruiting personnel with higher levels of attainment would better meet the future needs of the Armed Forces Whilst the Committee recognises that some recruits may not be eager to take further academic exams the MoD should encourage more recruits to undertake English and Maths GCSEs which would stand them in good stead for future employment The MoD has carried out some useful pilot projects with paramedic training and should identify more potential projects to ensure that vital skills paid for by the MoD are not lost to the country

22 Topic-wise CTET Paper 2 Mathematics & Science Previous Year Solved Papers (2024 - 2011) Class 6 - 8 Teachers | Child Development & Pedagogy, English & Hindi Language Disha Experts, 2024-10-22

The First edition of the book 22 TOPIC WISE CTET Paper 2 Mathematics Science Solved Papers 2024 2011 English Edition contains detailed Solutions to the Past 22 Solved Papers of the CTET exam from 2011 to 2024 The past 22 CTET Solved papers included are June 2011 Jan Section II mathematics has 15 Topics Section III Science has 16 Topics Section IV English

11 Topics Section V Hindi has 10 Topics The detailed solutions are provided immediately after each topic Solutions are provided for each question The languages covered in the tests are English 1st language and Hindi 2nd language The book is 100% useful for UPTET HTET MPTET CGTET UKTET HPTET BTET PTET and other STET Exam **Human Resource Management, 11th Edition** Raymond J. Stone, Anne Cox, Mihajla Gavin, Joseph Carpini, 2024-06-04 The new edition of Raymond Stone's Human Resource Management is an AHRI endorsed title that has evolved into a modern relevant and practical resource for first year HRM students This concise 15 chapter textbook gives your students the best chance of transitioning successfully into their future profession by giving them relatable professional insights and encouragement to exercise their skills in authentic workplace scenarios The English Baccalaureate Great Britain: Parliament: House of Commons: Education Committee, 2011-07-28 This report suggests that any new performance or curriculum measures affecting schools should only be implemented after proper consultation with key stakeholders and the wider public something which didn't happen with the English Baccalaureate EBac The Committee says that the Government should also have waited until after the conclusion of the National Curriculum Review before introducing the EBac They want the Government to deliver on its promise in the White Paper The Importance of Teaching to use performance tables to put greater emphasis on the progress of every child The report notes that certain academic subjects studied at A level are more valued by Russell Group universities than others but argues that a focus on a fairly narrow range of subjects demanding considerable curriculum time is likely to have negative consequences on the uptake of other subjects The Committee does not make recommendations on which subjects should or should not be included but rather encourages the Government to reconsider the EBac's composition when the National Curriculum Review is concluded The Government should confirm how it will monitor the attainment of children on free school meals in the EBac The report also calls for further international evidence to inform debate on the merits of the EBac evidence the inquiry received did not suggest a link in other countries between the prescribed study of certain academic subjects and improved attainment and prospects for poorer students Elsewhere the report argues that the current arrangements for certification of the EBac should be shelved as should calls for a Technical Baccalaureate to sit alongside the existing award **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

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