

# MATHEMATICS

2006

Time: 3 hours

Max. Marks: 100

Note: Answer ten questions in all – five questions from Section 'A' Three questions from Section 'B', One question from Section 'C' and the compulsory objective question No.1.

## OBJECTIVE (COMPULSORY)

- 1.(a) Fill in the following blanks with the correct answers: (05)
- (i) The \_\_\_\_\_ coordinate of every point on X-axis is Zero.
  - (ii) If  $A = \{a, b, c, d\}$ , then  $P(A)$  has \_\_\_\_\_ elements.
  - (iii)  $(7 - \sqrt{2})(7 + \sqrt{2}) = \text{_____}$ .
  - (iv) If  $\log_x 81 = 4$ , then  $x = \text{_____}$ .
  - (v)  $\sin \theta \cdot \sec \theta = \text{_____}$ .
- (b) Select the correct answer for each from the given brackets: 5
- (i)  $\tan 60^\circ = \text{_____}$   $\left( \frac{1}{\sqrt{3}}, 1, \sqrt{3} \right)$
  - (ii)  $x^4 + 64$  can be made a perfect square by adding \_\_\_\_\_.  
( $8x^2, 4x^2, 16x^2$ )
  - (iii) The sum of 5 observations is 125, Its mean = \_\_\_\_\_.  
(25, 50, 625)
  - (iv) The line which meets a circle at only one point is called a \_\_\_\_\_. (radius, tangent, diameter).
  - (v) An angle inscribed in a semi-circle is a/an \_\_\_\_\_ angle. (right, acute, obtuse)

## SECTION 'A'

- 2.(a) If  $U = \{x \mid x \in N, A \leq x \leq 10\}$ ,  $A = \{2, 3, 5, 7\}$ ,  $B = \{2, 4, 6, 8, 10\}$ , verify that  $(A \cup B)^c = A^c \cap B^c$ . (05+05)
- (b) If  $A = \{a, b\}$ ,  $B = \{2, 3\}$  and  $C = \{3, 4\}$ , find the value of  $A \times (B \cup C)$
- 3.(a) Simplify:  $\left( \frac{x^a}{x^b} \right)^{a+b} \cdot \left( \frac{x^b}{x^c} \right)^{b+c} \div 4(x^c \cdot x^a)^{a+c}$  (05)
- (b) Find the value of  $x^3 - \frac{1}{x^3}$  when  $x - \frac{1}{x} = -4$  (05)
4. Factorise any Four of the following: (10)
- (i)  $ax^3 + ax^2 - bx^2 - bx - cx - c$
  - (ii)  $x^2y^2 - 16xy + 64$
  - (iii)  $x^2 - x - 2y + 8y^2$
  - (iv)  $x^4 + 64$
  - (v)  $x^3 - x^2 + 2$
  - (vi)  $27a^3 - 64b^3 - 1 - 36ab^2$
- 5.(a) If  $A = \begin{bmatrix} 6 & 2 \\ 4 & 3 \end{bmatrix}$ , find  $A^{-1}$  and verify that  $A \cdot A^{-1} = I$ . (05)
- (b) If  $x^2 + \frac{1}{x^2} = p = 2$  and  $x^2 - \frac{1}{x^2} + q = 3$ , then find the relation free from 'x' (05)
6. Find the solution set of the following equations graphically (find four ordered pairs for each equation.) (10)
- $3x - 2y = 7$

# Matric Mathematics Paper March 2014

**Sqa (Hodder Ed)**



## **Matric Mathematics Paper March 2014:**

Condemned Again Skhumbuzo Letlaka, 2015-01-31 The work was conceived over a number of years and it relates to the manner in which African leaders govern their countries after independence Its main focus is on the South African politics under apartheid where racism and racial segregation was the order of the day and where white supremacy implied black inferiority It looks at a number of issues including humiliation and brutality that led to the United Nations declaring apartheid as crime against humanity It focuses on the processes leading to the build up of pressures that forced the racist government to accede to the demands of the international community and also bow to internal pressures which were exerted by the South African people themselves This book is written by a comrade who grew up in the township of Clermont a student of politics under the tutelage of Archie Gumede a man who rubbed shoulders with radicals such as Patrick Terror Lekota and Diliza Mji amongst others and a staunch Catholic whose wedding was conducted by Archbishop Denis Hurley Skhumbuzo Letlaka is a product of a township struggle stay aways consumer boycotts strikes school boycotts street committees and their tight discipline kangaroo courts and the application of the Mandela Plan Computer Supported Education H. Chad Lane, Susan Zvacek, James Uhomoibhi, 2020-11-09 This book constitutes the thoroughly refereed proceedings of the 11th International Conference on Computer Supported Education CSEDU 2019 held in Heraklion Crete Greece in May 2019 The 30 revised full papers were carefully reviewed and selected from 202 submissions The papers cover wide research fields including authoring tools and content development AV communication and multimedia classroom management e Learning hardware and software blended learning critical success factors in distance learning Leadership Approaches to Negotiate Challenges in a Changing Education Landscape Leentjie van Jaarsveld, Kobus Mentz, Charl C. Wolhuter, 2020-12-31 The argumentative point of departure of this scholarly book is the common conviction of specialists in the field of education in South Africa that the national education system is not at a satisfactory level in both the academic and the public discourse Such allegations are made and frequently stronger adjectives than non satisfactory are used Results of international test series in which South Africa has participated such as the 2015 TIMSS tests confirm the negative verdicts found in the public and scholarly discourse This book aims to argue that although the lack of performance could be attributed to a multiplicity of factors one factor that can make a difference in the achievement levels obtained by learners in schools is leadership The book demonstrates that a particular problem of both the scholarly and the public discourse on education in South Africa is an overtone of defeatism or resignation blaming all ills in the education system and educational institutions on historical legacies and or contextual factors such as socio economic deprivation in the catchment areas of schools or poor resources and infrastructure This collected work was inspired by a recently published spate of articles on top performing schools including top performing schools in rural communities in which it was demonstrated that good leadership can overcome such contextual and other challenges The book unpacks the issue of leadership in South African schools from a

variety of perspectives thus contributing to the development of the scholarly discourse on Educational Leadership in South Africa The target audience of the book is scholars of Educational Leadership The research reported in the chapters draw on a wide range of methodologies including empirical survey research questionnaires and interviews critical literature surveys and the comparative method *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 **Advances in Measurement**

**Technology, Disaster Prevention and Mitigation** Zongming Li, Mohd Johari Mohd Yusof, 2022-12-09 Advances in Measurement Technology Disaster Prevention and Mitigation collects papers resulting from the conference on Measurement Technology Disaster Prevention and Mitigation MTDPM 2022 Zhengzhou China 27-29 May 2022 The primary goal is to promote research and developmental activities in measurement disaster prevention and mitigation and another goal is to promote scientific information interchange between scholars from the top universities business associations research centers

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web this design of sleeper like the later f27 has passed through several development stages involving the specification of the reinforcement and the depth of the central well the most common later sleepers were designated f24bs photos 49 and 50



with no conductor rail in position introduced towards the end of the 1970 s and are easily

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web railroad sleepers are traditionally made of wood but pre stressed concrete is now also widely used especially in europe and asia steel ties are common on secondary lines in the uk plastic composite ties are also employed although far less than wood or concrete

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web jul 21 2014 cost efficiency superior durability and improved track stability are the main factors toward significant adoption of concrete materials for railway sleepers the sleepers in a track system as shown in figure 1 are subjected to harsh and aggressive external forces and natural environments across a distance

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web several different types of plain steel reinforced concrete sleeper were used some initiated by the private rail companies and others by the war department my researches are mainly based on my local ex gwr experiences where it has been possible to see and record designs still in use today

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sleeper resistance anchor type cs fc for f19 f23 ef25 f27 concrete sleepers centre fitting 0057 048173 lateral resistance end plate 3 hole for timbers 0057 048875

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