

**Mathematics**

*Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.*

**Time: 3 hrs.**

**Full Marks: 100**

**Pass Marks: 35** (For partial students only)

**Attempt all questions.**

**Group 'A'**

**5 × 3 × 2 = 30**

1. a. Find the truth value of the biconditional statement of  $p$  and  $q$  where  $p$  represents '2 is an even number' and  $q$  represents '4 is an even number'.
- b. If  $f: \mathbb{R} \rightarrow \mathbb{R}$  be defined by  $f(x) = 2x - 3$ , find  $f^{-1}$
- c. Test the even or odd nature and symmetricity of the function  $y = 8x^2$
2. a. Express  $\tan^{-1}x$  in terms of inverse of sin function.
- b. Prove by mathematical induction:  $1 + 3 + 5 + \dots + (2n - 1) = n^2$
- c. Find the adjoint of the matrix  $\begin{pmatrix} 2 & 5 \\ 3 & -7 \end{pmatrix}$
3. a. Using Cramer's rule, solve:  $3x + 2y + 9 = 0$ ,  $2x - 3y + 6 = 0$
- b. Express  $\sqrt{3} + i$  in polar form.
- c. If one root of the equation  $ax^2 + bx + c = 0$  be twice the other, show that  $2b^2 = 9ac$
4. a. Find the equation of the straight line that has  $y$ -intercept '2' and is parallel to  $4x - 8y + 3 = 0$
- b. Find the equation of the circle which passes through origin and makes equal intercepts on both axes.
- c. Evaluate:  $\lim_{x \rightarrow 0} \frac{1 - \cos nx}{1 - \cos mx}$

**Contd...**

# Maths Question Paper Grade 10 2012 Limpopo

**SJ Ball**



## **Maths Question Paper Grade 10 2012 Limpopo:**

**Wenn Sprache Bildung verhindert** Michael M. Kretzer, 2022-02-28 Sprachenpolitik in Bildungssystemen beeinflusst entscheidend die Bildungserfolge von Sch lern In fast allen Staaten Sub Sahara Afrikas wird nur in den ersten Jahren der Grundschule eine der indigenen Sprachen als Unterrichtssprache verwendet Meist erfolgt bereits w hrend der Grundschulzeit ein Wechsel auf die ehemalige und insbesondere in l ndlichen Gebieten oftmals fremde da kaum gesprochene Kolonialsprache in der Regel Englisch oder Franz sisch Auch wenn die s dafrikanische Verfassung von 1996 elf offizielle Sprachen davon neun indigene Sprachen vorsieht so findet Afrikaans und Englisch nach wie vor eine sehr privilegierte Verwendung Zahlreiche mehrmonatige Forschungsaufenthalte von Michael Kretzer zeigen erstaunliche und gr tenteils ungenutzte Potentiale hinsichtlich der Verwendung indigener Sprachen im Unterricht **LearnXtra Maths Literacy** ,2012

*New Approach to Mathematics* F. A. Hoskin, Keith Alexander Dan, Marjorie C. Carss, 1973 *New Approach to Mathematics. Grade 10, Level 1, First Semester* Frank Aaron Hoskin, Keith Alexander Dan, 1973

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