

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 Paper 2 Prep Examination 2012 Memo Gauteng

Patrick Vollmar



Maths Paper 2 Prep Examination 2012 Memo Gauteng:

Whispering the Strategies of Language: An Mental Quest through **Maths Paper 2 Prep Examination 2012 Memo Gauteng**

In a digitally-driven earth where screens reign great and instant interaction drowns out the subtleties of language, the profound secrets and emotional nuances hidden within phrases often get unheard. Yet, set within the pages of **Maths Paper 2 Prep Examination 2012 Memo Gauteng** a interesting literary treasure blinking with natural feelings, lies a fantastic quest waiting to be undertaken. Composed by an experienced wordsmith, that wonderful opus attracts readers on an introspective journey, lightly unraveling the veiled truths and profound impact resonating within ab muscles material of each word. Within the psychological depths of this emotional review, we will embark upon a sincere exploration of the book is core styles, dissect their fascinating writing model, and succumb to the strong resonance it evokes strong within the recesses of readers hearts.

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