

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...

Grade 1 mathematics Final Exam Paper 2 2014

Robert R. Redfield



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Unveiling the Energy of Verbal Artistry: An Psychological Sojourn through **Grade 1mathematics Final Exam Paper 2 2014**

In a global inundated with displays and the cacophony of fast conversation, the profound energy and mental resonance of verbal artistry frequently disappear into obscurity, eclipsed by the continuous onslaught of noise and distractions. However, located within the lyrical pages of **Grade 1mathematics Final Exam Paper 2 2014**, a captivating perform of fictional splendor that impulses with organic thoughts, lies an remarkable trip waiting to be embarked upon. Written by way of a virtuoso wordsmith, that interesting opus instructions readers on a mental odyssey, lightly revealing the latent possible and profound impact stuck within the intricate web of language. Within the heart-wrenching expanse of this evocative examination, we will embark upon an introspective exploration of the book is main themes, dissect their interesting writing fashion, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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