

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 8 2013 Math Question Paper

CO Houle



Grade 8 2013 Math Question Paper:

Enjoying the Track of Term: An Mental Symphony within **Grade 8 2013 Math Question Paper**

In a world consumed by displays and the ceaseless chatter of instantaneous connection, the melodic splendor and psychological symphony developed by the published word often disappear into the backdrop, eclipsed by the persistent sound and distractions that permeate our lives. But, nestled within the pages of **Grade 8 2013 Math Question Paper** a charming fictional prize brimming with organic emotions, lies an immersive symphony waiting to be embraced. Crafted by an outstanding composer of language, this charming masterpiece conducts visitors on a mental trip, well unraveling the concealed tunes and profound impact resonating within each carefully constructed phrase. Within the depths of the moving review, we shall explore the book is key harmonies, analyze their enthralling publishing fashion, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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