

**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...**

# July 2nmathematics Question Paper

**M Carnoy**



**July 2nmathematics Question Paper:**

## Unveiling the Power of Verbal Art: An Psychological Sojourn through **July 2nmathematics Question Paper**

In a world inundated with monitors and the cacophony of instant connection, the profound power and mental resonance of verbal beauty frequently disappear into obscurity, eclipsed by the regular barrage of sound and distractions. However, located within the musical pages of **July 2nmathematics Question Paper**, a interesting perform of literary splendor that pulses with organic thoughts, lies an wonderful trip waiting to be embarked upon. Published by way of a virtuoso wordsmith, this interesting opus courses visitors on a psychological odyssey, softly revealing the latent possible and profound influence stuck within the complex web of language. Within the heart-wrenching expanse of the evocative evaluation, we will embark upon an introspective exploration of the book is main styles, dissect its charming writing type, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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