

**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 11 august 24

**Sabine Zange**



**Maths Question Paper Grade 11** august 24:

## Unveiling the Power of Verbal Art: An Mental Sojourn through **Maths Question Paper Grade 11** **august 24**

In a world inundated with displays and the cacophony of fast transmission, the profound energy and mental resonance of verbal artistry usually disappear into obscurity, eclipsed by the constant barrage of noise and distractions. However, situated within the musical pages of **Maths Question Paper Grade 11** **august 24**, a captivating perform of fictional brilliance that pulses with raw feelings, lies an unique trip waiting to be embarked upon. Composed by way of a virtuoso wordsmith, that exciting opus guides viewers on a mental odyssey, delicately revealing the latent potential and profound influence stuck within the elaborate internet of language. Within the heart-wrenching expanse of the evocative analysis, we will embark upon an introspective exploration of the book is central themes, dissect their captivating publishing fashion, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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