

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 Final Exam

Raffaela Di Napoli



Maths Question Paper Grade Final Exam:

Unveiling the Energy of Verbal Beauty: An Mental Sojourn through **Maths Question Paper Grade Final Exam**

In a world inundated with screens and the cacophony of immediate conversation, the profound energy and mental resonance of verbal artistry frequently fade into obscurity, eclipsed by the regular barrage of noise and distractions. Yet, set within the lyrical pages of **Maths Question Paper Grade Final Exam**, a interesting perform of fictional brilliance that pulses with raw emotions, lies an wonderful journey waiting to be embarked upon. Penned by way of a virtuoso wordsmith, this enchanting opus courses readers on a psychological odyssey, delicately exposing the latent possible and profound influence stuck within the intricate internet of language. Within the heart-wrenching expanse with this evocative examination, we can embark upon an introspective exploration of the book is central styles, dissect their captivating publishing style, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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