

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...

Mathematics 2013 Question Paper Grade 11 Caps

Lei Shi



Mathematics 2013 Question Paper Grade 11 Caps:

Unveiling the Power of Verbal Art: An Psychological Sojourn through **Mathematics 2013 Question Paper Grade 11 Caps**

In a global inundated with monitors and the cacophony of quick connection, the profound energy and emotional resonance of verbal art usually diminish in to obscurity, eclipsed by the continuous onslaught of sound and distractions. Yet, set within the lyrical pages of **Mathematics 2013 Question Paper Grade 11 Caps**, a fascinating work of fictional brilliance that pulses with organic feelings, lies an unique journey waiting to be embarked upon. Published by way of a virtuoso wordsmith, that enchanting opus courses viewers on a psychological odyssey, gently revealing the latent potential and profound impact embedded within the elaborate internet of language. Within the heart-wrenching expanse with this evocative examination, we can embark upon an introspective exploration of the book is main styles, dissect its fascinating publishing model, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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