

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 Paper A Linear 11th June 2013

John Turner



Maths Paper A Linear 11th June 2013:

Enjoying the Tune of Phrase: An Psychological Symphony within **Maths Paper A Linear 11th June 2013**

In a world taken by screens and the ceaseless chatter of immediate communication, the melodic splendor and mental symphony produced by the prepared term usually diminish in to the background, eclipsed by the relentless noise and interruptions that permeate our lives. However, nestled within the pages of **Maths Paper A Linear 11th June 2013** a wonderful fictional value brimming with organic feelings, lies an immersive symphony waiting to be embraced. Constructed by an elegant musician of language, this fascinating masterpiece conducts viewers on a psychological journey, well unraveling the hidden melodies and profound influence resonating within each cautiously constructed phrase. Within the depths of the touching evaluation, we can examine the book is central harmonies, analyze their enthralling publishing style, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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