

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...

14 November Maths Lit Question Paper

Daniel F McAuley



14 November Maths Lit Question Paper:

Whispering the Techniques of Language: An Mental Quest through **14 November Maths Lit Question Paper**

In a digitally-driven earth wherever monitors reign supreme and quick conversation drowns out the subtleties of language, the profound secrets and mental nuances hidden within words usually move unheard. However, located within the pages of **14 November Maths Lit Question Paper** a charming literary prize blinking with natural emotions, lies an exceptional journey waiting to be undertaken. Composed by an experienced wordsmith, this marvelous opus attracts visitors on an introspective journey, softly unraveling the veiled truths and profound influence resonating within the fabric of each word. Within the emotional depths of the touching evaluation, we can embark upon a honest exploration of the book is core styles, dissect its charming publishing style, and succumb to the strong resonance it evokes strong within the recesses of readers hearts.

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