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' $5 \times 3 \times 2 = 30$

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 $f : \mathfrak{R} \rightarrow \mathfrak{R}$ 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 : $\displaystyle\lim_{x \to 0} \frac{1 - \cos mx}{1 - \cos nx}$

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