

# 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 symmetry of the function  $y = 8x^2$ .
2. a. Express  $\tan^{-1}x$  in terms of inverse of sin function.  $\tan^{-1}x = \sin^{-1} \frac{x}{\sqrt{1+x^2}}$   
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  $2b^2 = 9ac$ .
- 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.
- Evaluate:  $\lim_{x \rightarrow 0} \frac{1 - \cos nx}{1 - \cos mx}$

# Grade March Quetion Papers

**D Kirk**



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