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.

<div align="center">

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

</div>

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 $f : \Re \to \Re$ 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: $1 + 3 + 5 + \ldots + (2n-1) = n^2$

   c.   Find the adjoint of the matrix $\begin{pmatrix} 2 & 5 \\ 3 & -7 \end{pmatrix}$

3.   a.   Using **Cramer's rule**, solve : $3x + 2y + 9 = 0, \quad 2x - 3y + 6 = 0$

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

Maths Grade 11 Exam Papers 2012

RD Boyd

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Table of Contents Maths Grade 11 Exam Papers 2012

1. Understanding the eBook Maths Grade 11 Exam Papers 2012
    - The Rise of Digital Reading Maths Grade 11 Exam Papers 2012
    - Advantages of eBooks Over Traditional Books
2. Identifying Maths Grade 11 Exam Papers 2012
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Maths Grade 11 Exam Papers 2012
    - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Grade 11 Exam Papers 2012
    - Personalized Recommendations
    - Maths Grade 11 Exam Papers 2012 User Reviews and Ratings
    - Maths Grade 11 Exam Papers 2012 and Bestseller Lists
5. Accessing Maths Grade 11 Exam Papers 2012 Free and Paid eBooks

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