

**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...**

# Mathematics Grade 11 September 2013 Question Papers

**DP Hallahan**



**Mathematics Grade 11 September 2013 Question Papers:**

## Enjoying the Tune of Appearance: An Mental Symphony within **Mathematics Grade 11 September 2013 Question Papers**

In a world eaten by displays and the ceaseless chatter of instantaneous interaction, the melodic beauty and mental symphony created by the prepared word usually diminish in to the background, eclipsed by the relentless sound and interruptions that permeate our lives. However, located within the pages of **Mathematics Grade 11 September 2013 Question Papers** a wonderful fictional treasure filled with natural emotions, lies an immersive symphony waiting to be embraced. Crafted by a masterful musician of language, that charming masterpiece conducts viewers on an emotional journey, well unraveling the concealed tunes and profound impact resonating within each cautiously constructed phrase. Within the depths of this emotional review, we can explore the book is main harmonies, analyze their enthralling writing fashion, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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