

# Mathematics & Statistics 1 - September 2009

(b) Attempt any ONE of the following :

- (i) Show that the acute angle ' $\theta$ ' between the pair of the lines represented by the equation.

$$ax^2 + 2hxy + by^2 = 0 \text{ is given by } \tan \theta = \left| \frac{2\sqrt{h^2 - ab}}{a+b} \right| \quad (3)$$

- (ii) Find the equation of the locus of a point, the tangents drawn from which to the circle  $x^2 + y^2 = a^2$  are mutually perpendicular. (3)

(B) Attempt any ONE of the following :

- (i) A company manufactures two products. The basic time data, machine capacity and profit contribution are given in the following table : (2)

Machines	Product A	Product B	Hours available per week
Lathes	1	1	80
Milling	1	2	120
Profit in Rs.	6	8	

Formulate the above L.P.P. to maximize the profit. (2)

- (ii) Solve with the help of the following graph :

Minimize :  $Z = 100x + 70y$

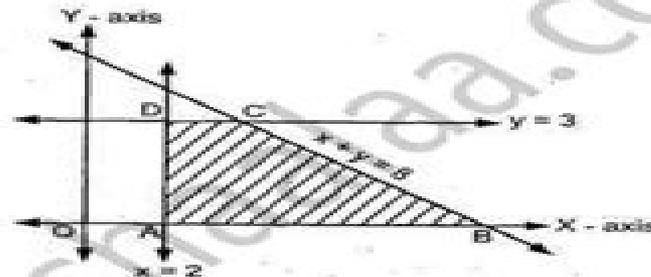
Subject to :  $2x \geq 4$

$$y \leq 3$$

$$x + y \leq 8$$

$$x \geq 0, y \geq 0$$

(2)



Q. 4 (A) (a) Attempt any TWO of the following : [8]

- (i) Find the combined equation of a pair of lines passing through the origin and making an angle of  $30^\circ$  with the line  $2x - y = 5$ . (3)

- (ii) Find the equations of the tangents to the circle  $x^2 + y^2 + 4x - 2y - 8 = 0$  having slope  $-\frac{3}{2}$ . (3)

(b) Attempt any ONE of the following :

- (i) The probability that a person stopping at petrol pump will ask for petrol is 0.80, the probability that he will ask for water is 0.70 and the probability that he will ask for both is 0.65.

Find the probability that the person will ask for the following :

- (1) Either petrol or water (2) Neither petrol nor water (3)

- (ii) Three unbiased coins are tossed. X denotes the number of heads turn up, then write down the probability distribution of X. (3)

(B) Attempt any ONE of the following :

- (i) Find the equation of ellipse standard form whose foci are at  $(\pm 4, 0)$  & eccentricity is  $\frac{1}{3}$ . (2)

- (ii) Find 'k' if the line  $y = x + k$  is tangent to the hyperbola  $9x^2 - 16y^2 = 144$ . (2)

# Hsc 2009 Mathematics Question Paper

**Marco Casella**



**Hsc 2009 Mathematics Question Paper:**

## **Hsc 2009 Mathematics Question Paper** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Hsc 2009 Mathematics Question Paper**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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