



Federal Board SSC-I Examination  
Mathematics Model Question Paper  
(Science Group)

Time allowed: 2.40 hours

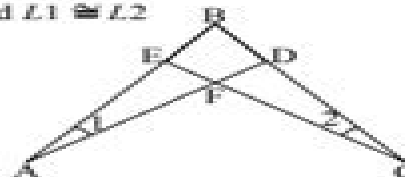
Total Marks: 60

Note: Attempt any nine parts from Section 'B' and any three questions from Section 'C' on the separately provided answer book. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly. Log book and graph paper will be provided on demand.

SECTION – B (Marks 36)

Q.2 Attempt any NINE parts from the following. All parts carry equal marks. ( $9 \times 4 = 36$ )

- i. If  $A = \begin{bmatrix} 1 & 0 \\ 2 & 3 \end{bmatrix}$   
(a) Find  $A^t$   
(b) Find  $A - A^t$   
(c) Also check if  $A - A^t$  is Skew-Symmetric.
- ii. Show that  $\left(\frac{x^a}{y^b}\right)^{a+b} \cdot \left(\frac{x^b}{y^a}\right)^{2+a} \cdot \left(\frac{x^a}{y^a}\right)^{c+2a} = 1$
- iii. Use logarithm to find the value of  $\sqrt[3]{25.47} \times \sqrt[4]{342.2}$
- iv. If  $x = \frac{\sqrt{7}+\sqrt{2}}{\sqrt{7}-\sqrt{2}}$ , find the values of  $x + \frac{1}{x}$  and  $x^2 + \frac{1}{x^2}$
- v. Factorize  $(x-1)(x-2)(x+3)(x+4) + 6$
- vi. Find the value of k for which the expression  $4x^4 - 12x^3 + 37x^2 - 42x + k$  is a perfect square
- vii. If  $x + 2y = 5$  and  $3x - y = 1$   
(a) Draw the graph of above equations on the same plane.  
(b) Do the lines intersect?  
(c) What is the solution of given lines?  
Note: Candidates can make their own grid on the answer sheet.
- viii. Use the distance formula to check whether or not the points (1, 1), (-2, -8) and (4, 10) lie on a straight line.
- ix. In the given figure,  $\overline{AB} \cong \overline{CB}$  and  $\angle 1 \cong \angle 2$   
Prove that  $\triangle ABD \cong \triangle CBE$



- x. The distances of the point of concurrency of the medians of a triangle from its vertices are respectively 1.2cm, 1.4cm, 1.6cm. Find the lengths of its medians.
- xi. Any point on the bisector of an angle is equidistant from its arms. Prove it.

# High School Math Model Paper 2014

**N Noddings**



**High School Math Model Paper 2014:**

## Unveiling the Power of Verbal Art: An Psychological Sojourn through **High School Math Model Paper 2014**

In a global inundated with monitors and the cacophony of instantaneous conversation, the profound energy and psychological resonance of verbal beauty usually diminish in to obscurity, eclipsed by the continuous barrage of noise and distractions. However, nestled within the lyrical pages of **High School Math Model Paper 2014**, a captivating perform of literary splendor that impulses with organic feelings, lies an unique journey waiting to be embarked upon. Penned with a virtuoso wordsmith, that exciting opus books viewers on a psychological odyssey, lightly exposing the latent potential and profound affect stuck within the complex web of language. Within the heart-wrenching expanse of this evocative evaluation, we will embark upon an introspective exploration of the book is key themes, dissect its fascinating writing model, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

<https://staging.conocer.cide.edu/data/Resources/index.jsp/God%20Is%20Not%20A%20Homophobe.pdf>

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