



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

Time allowed: 2.40 hours

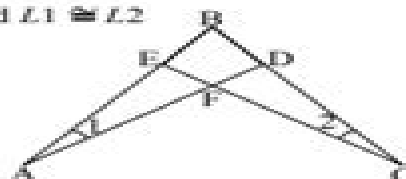
Total Marks: 60

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 $\left(\frac{x^a}{y^5}\right)^{a+b} \cdot \left(\frac{x^b}{y^2}\right)^{2+c} \cdot \left(\frac{x^c}{y^4}\right)^{c+a} = 1$
- iii. Use logarithm to find the value of $\sqrt[4]{25.47} \times \sqrt[3]{342.2}$
- 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 24

Terry C. Jones



High School Math Model Paper 24:

High School Math Model Paper 24 Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the power of words has been evident than ever. They have the ability to inspire, provoke, and ignite change. Such is the essence of the book **High School Math Model Paper 24**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall affect readers.

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