



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.

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