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# TS SSC Maths Answer Key 2026 (Unofficial)

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Question No.	Question	Correct Answer
9	Bag with 5 red, 3 black, 2 white balls. Find P(red) and P(not white).	(i) P(Red) = 1/2; (ii) P(Not White) = 4/5
8	Write the formula for the nth term of an AP and explain each term.	$a_n = a + (n-1)d$ ; a = first term, d = common difference, n = position.
7	Find $A \cup B$ , $A \cap B$ , $A - B$ and $B - A$ from the provided Venn diagram.	$A \cup B = \{a, l, b, c, g, e, r, m, y, t\}$ $A \cap B = \{g, e, r\}$ $A - B = \{a, l, b, c\}$ $B - A = \{m, y, t\}$
6	Write one example each of a "Sure event" and "Impossible event".	Sure: Sun rising in the East. Impossible: Getting a 7 on a 6-sided die.
5	In $\triangle ABC$ , $DE \parallel BC$ . If $AD = x$ , $DB = x-1$ , $AE = x+2$ , $EC = x$ , find x.	$x = 2$ (Using Basic Proportionality Theorem)
4	Express $\cot\theta$ in terms of $\sin\theta$ .	$\cot\theta = \sqrt{1 - \sin^2\theta} / \sin\theta$
3	Draw a diagram for an observer 30m from a tree seeing the top at $60^\circ$ elevation.	A right triangle with base = 30m and angle $\theta = 60^\circ$ .

2	Check whether the pair of linear equations $2x - 3y = 8$ and $4x - 6y = 11$ are consistent.	Inconsistent (Lines are parallel as $a_1/a_2 = b_1/b_2 \neq c_1/c_2$ )
1	Find the value of $\log_{\sqrt{2}} 64$ .	12 (Because $(\sqrt{2})^{12} = 2^6 = 64$ )

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