

## CBSE Class 10 Maths Sample Paper SA 2 Set 1

## SAMPLE QUESTION PAPER (Set - II)

## Summative Assessment – II

## Class-X

## Mathematics

Time: 3 hours

M. M. : 90

**General Instructions:**

1. All questions are compulsory.
2. The question paper consists of 31 questions divided into four sections A, B, C and D.
3. Section A contains 4 questions of 1 mark each. Section B contains 6 questions of 2 marks each. Section C contains 10 questions of 3 marks each. Section D contains 11 questions of 4 marks each.
4. Use of calculators is not permitted.

**Section A**

(Question numbers 1 to 4 carry 1 mark each)

1. Find the value of  $k$ , for which one root of the quadratic equation  $kx^2 - 14x + 8 = 0$  is six times the other.
2. Find the tenth term of the sequence  $\sqrt{2}, \sqrt{8}, \sqrt{18}, \dots$
3. Out of 200 bulbs in a box, 12 bulbs are defective. One bulb is taken out at random from the box. What is the probability that the drawn bulb is not defective?
4. Find the value of  $a$ , for which point  $P\left(\frac{a}{3}, 2\right)$  is the midpoint of the line segment joining the points  $Q(-5, 4)$  and  $R(-1, 0)$ .

**Section B**

(Question numbers 5 to 10 carry 2 marks each)

5. If 2 is a root of the equation  $x^2 + kx + 12 = 0$  and the equation  $x^2 + kx + q = 0$  has equal roots, find the value of  $q$ .

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**Ellen Zelenko,Sue Kerman,Diana Kats**

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