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SERIES - 1**IMP SERIES Introduced
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“CGBSE SUPPORT”****Important Questions
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Board Exam ‘2021’**

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CLASS – 10th**Subject – Mathematics****“Quadratic Equation in One Variable”****2 Marks Questions.**

1. Find the roots of the given quadratic equation –

$$(2x+3)(3x-7) = 0$$

2. In $\sqrt{2}$ a root of the equation $x^2+2x-4 = 0$?
3. Find the quadratic equations whose sum and product of roots are as following:
 - a. Sum of roots = 6
 - b. Product of roots = 9
4. Find the quadratic equation whose roots are as following:
 - a. 7,4
 - b. -2,4
5. Find the sum and product of roots of the following quadratic equations:
 - a. $2x^2-2x+3 = 0$
 - b. $3x^2-5x-2 = 0$
 - c. $x^2+6x-6 = 0$

“3” Marks Question:

1. Find the roots of the following square equations by factorization:
 - a. $3x^2-11x+10=0$
 - b. $10x - \frac{1}{x} = 3$
2. Solve the following by completing the square method.
 - a. $2x^2+x-4 = 0$
 - b. $5x^2-6x-2 = 0$
 - c. $3x^2+2x-1=0$

3. Find the solution of $\sqrt{7 + \sqrt{7 + \sqrt{7 + \sqrt{7}}}} \dots$
4. The product of two consecutive natural numbers is 20. Find the numbers.
5. Find the nature of the roots of the following quadratic equations.

$$3x^2 - 2\sqrt{6}x + 2 = 0$$
6. Find the value of k if the roots of the given equation are real and equal.
 - a. $2x^3 - 10x + k = 0$
 - b. $kx^2 - 5x + k = 0$
 - c. $kx^2 + 4x + 1 = 0$
7. Solve the following quadratic equations with the help of formula.
 - a. $9x^2 + 7x - 2 = 0$
 - b. $6x^2 + x - 2 = 0$
 - c. $2x^2 - 2\sqrt{6}x + 3 = 0$
8. Find the quadratic equation whose roots are as following:
 - a. $\sqrt{3} - 7, \sqrt{3} + 7$
 - b. $6 + \sqrt{5}, 6 - \sqrt{5}$
9. Solve the following equation by factorization $x^2 + 2\sqrt{2}x - 6 = 0$
10. Solve the quadratic equation $2x^2 - 7x + 3 = 0$
11. Solve $\sqrt{6 + \sqrt{6 + \sqrt{6 + \dots}}}$

“6” Marks Question:

1. Find the roots of the following equation by factorization:

$$\frac{x+1}{x-1} - \frac{x-1}{x+1} = \frac{5}{6}; \quad x \neq 1, -1$$

2. Find two positive (consecutive) natural numbers, sum of whose squares is 365.
3. Find the two numbers whose sum is 48 and product is 432.
4. Perimeter and area of a flower bed are 76 meter and 357 square meters respectively.
Find the length and breadth of the flower bed.
5. The product Neelmani's age 5 years ago and 8 years ago is 40. Find Neelmani's present age.